BRUHAT BANGALORE MAHANAGARA PALIKE
BYTARAYANPURA DIVISION

Name of Work: (As per sanctioned estimate): Package No.01
(Package consists of 18 works)

1. Improvements to Road and Drains at Thanisandra Munisonnegowda Layout in Ward No.06(Thanisandra), Byatarayanapura Sub Division.

DETAILED-MEASUREMENT

FOURTH AND FINAL BILL

TEJUS CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No.58 MIG, 6th Cross, 3rd Main
1st Stage, Basaveshwaranagar
Bangalore-560079
☎ 080 - 23287532
email: tejusconsultants@gmail.com

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Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Sub Division

Bill No :4th & Final Bill

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Name of Work :- Improvements to Road and Drains at Thanisandra Munisonnegowda Layout in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks / Unit	Rate	Amount
3	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)											
	Qty Vide Pre-Measurement of Page No 1 to 4								446.70			
	Qty to be Paid								**446.70**	**cum**	**228.60**	**1,02,115.62**
10	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.25, I.No.5.33 of PW, P&IWTD SR 2016-17)											
	8th Main road Sanchar nagar (MCECHS)											
	RHS											
	12.00	30.00	R/S	1	18.00			0.90	16.20			
	11th Main road Sancharnagar MCECHS layout											
	LHS											
	0.00	15.00	L/S	1	15.00			0.90	13.50			
	15.00	21.80	L/S	1	6.80			0.90	6.12			
	21.80	30.00	L/S	0	8.20			0.90	0.00			
	30.00	45.00	L/S	1	15.00			0.90	13.50			
	45.00	60.00	L/S	0	15.00			0.90	0.00			
	60.00	75.00	L/S	1	15.00			0.90	13.50			
	75.00	90.00	L/S	1	15.00			0.90	13.50			
	90.00	105.00	L/S	0	15.00			0.90	0.00			
	105.00	115.00	L/S	1	10.00			0.90	9.00			
	RHS											
	0.00	10.00	R/S	1	10.00			0.90	9.00			
	10.00	20.00	R/S	0	10.00			0.90	0.00			
	20.00	30.00	R/S	1	10.00			0.90	9.00			
	30.00	47.40	R/S	1	17.40			0.90	15.66			
	47.40	56.00	R/S	0	8.60			0.90	0.00			
	56.00	65.00	R/S	0	9.00			0.90	0.00			
	65.00	75.00	R/S	0	10.00			0.90	0.00			
	75.00	90.00	R/S	1	15.00			0.90	13.50			
	90.00	105.00	R/S	1	15.00			0.90	13.50			
	105.00	110.00	R/S	1	5.00			0.90	4.50			
								Total Quantity	**150.48**	**Sqm**	**86.40**	**13,001.47**
26	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14 of PW,P&IWTD S.R 2016-17)											
	Qty Vide Pre-Measurement of Page No 5 to 8								1040.86			
	Qty to be Paid								**1040.86**	**Cum**	**185.40**	**1,92,974.98**

1,92,975

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

Scanned by CamScanner

Detailed Measurements

Name of Work :- Improvements to Road and Drains at Thanisandra Munisonnegowda Layout in Ward No.06(Thanisandra).

Byatarayanapura Sub Division

BOQ Item	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks / Unit	Rate	Amount
28	KSRRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base' base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.No.158, I.No.20.18 of PW,P&IWTD SR 2016-17)											
	Qty Vide Pre-Measurement of Page No 9 10 12								795.56			
	Qty to be Paid								795.56	Cum	1750.50	13,92,630.84
29	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.161, I.No.21.6 of PW,P&IWTD SR 2016-17)											
	Qty Vide Pre-Measurement of Page No 12 10 12								3797.93			
	Qty to be Paid								3797.93	Sqm	29.70	1,12,798.37
30	KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5 (P.No.161, I.No.21.2 of PW,P&IWTD SR 2016-17)											
	Qty Vide Pre-Measurement of Page No 15 10 20								2,984.55			
	Qty to be Paid								2984.55	Sqm	3.60	10,744.38
												10,744.38
31	KSRRB M500-7 : Providing and applying tack coat using 80 100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.161 I.No.21.7 of PW,P&IWTD SR of 2016-17)											
	Qty Vide Pre-Measurement of Page No 21 10								6782.48			.48
	Qty to be Paid								6782.48	Sqm	13.50	91,563.41
	Measurement Recorded on											
32	KSRRB M500-19. Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.165 of I.No.21.22.6 in PW,P&IWTD S.R 2016-17)											
	10th main road,Sanchar nagar,MCECHS layout											
	0.00	5.00		1	5.00	6.40	5.60	6.00	0.04	1.20		
	5.00	15.00		1	10.00	5.60	6.20	5.90	0.04	2.36		
	15.00	30.00		1	15.00	6.20	5.80	6.00	0.04	3.60		
	30.00	45.00		1	15.00	5.80	6.50	6.15	0.04	3.69		
	45.00	60.00		1	15.00	6.50	5.60	6.05	0.04	3.63		
	60.00	75.00		1	15.00	5.60	6.50	6.05	0.04	3.63		
	75.00	90.00		1	15.00	6.50	6.40	6.45	0.04	3.87		
	90.00	105.00		1	15.00	6.40	5.90	6.15	0.04	3.69		
	105.00	120.00		1	15.00	5.90	5.40	5.65	0.04	3.39	29.06	

Tejus Consultants Contractor

Assistant Engineer

Assistant Executive Engine

Scanned by CamScanner

Detailed Measurements

Name of Work :- Improvements to Road and Drains at Thanisandra Munisonnegowda Layout in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks Unit	Rate	Amount
	120.00	125.70		1	5.70	5.40	4.50	4.95	0.04	1.13			
	Approach			1	0.90			0.90	0.04	0.03			
	11th main road,Sanchar nagar												
	0.00	5.00		1	5.00	7.20	5.30	6.25	0.04	1.25			
	5.00	15.00		1	10.00	5.30	5.30	5.30	0.04	2.12			
	15.00	30.00		1	15.00	5.30	6.00	5.65	0.04	3.39			
	30.00	45.00		1	15.00	6.00	6.00	6.00	0.04	3.60			
	45.00	60.00		1	15.00	6.00	5.90	5.95	0.04	3.57			
	60.00	75.00		1	15.00	5.90	5.90	5.90	0.04	3.54			
	75.00	90.00		1	15.00	5.90	6.00	5.95	0.04	3.57			
	90.00	105.00		1	15.00	6.00	5.40	5.70	0.04	3.42			
	105.00	121.30		1	16.30	5.40	5.70	5.55	0.04	3.62			
	9th ' A'Main road,Sanchar nagar(MCECHS)												
	0.00	15.00		1	15.00	7.00	7.00	7.00	0.04	4.20			
	15.00	30.00		1	15.00	7.00	6.50	6.75	0.04	4.05			
	30.00	45.00		1	15.00	6.50	6.20	6.35	0.04	3.81			
	45.00	60.00		1	15.00	6.20	6.80	6.50	0.04	3.90			
	60.00	75.00		1	15.00	6.80	6.20	6.50	0.04	3.90			
	75.00	86.50		1	11.50	6.20	6.10	6.15	0.04	2.83			
	9th ' B'Main road,Sanchar nagar(MCECHS)												
	0.00	5.00		1	5.00	6.80	6.00	6.40	0.04	1.28			
	5.00	15.00		1	10.00	6.00	5.55	5.78	0.04	2.31			
	15.00	30.00		1	15.00	5.55	6.40	5.98	0.04	3.59			
	30.00	45.00		1	15.00	6.40	6.30	6.35	0.04	3.81			
	45.00	60.00		1	15.00	6.30	5.50	5.90	0.04	3.54			
	60.00	75.00		1	15.00	5.50	6.10	5.80	0.04	3.48			
	75.00	90.00		1	15.00	6.10	6.80	6.45	0.04	3.87			
	90.00	105.00		1	15.00	6.80	6.50	6.65	0.04	3.99			
	105.00	120.00		1	15.00	6.50	5.90	6.20	0.04	3.72			
	120.00	125.60		1	5.60	5.90	5.70	5.80	0.04	1.30			
	8th 'A' Main road,Sanchar nagar												
	0.00	5.00		1	5.00	7.60	6.20	6.90	0.04	1.38			
	5.00	15.00		1	10.00	6.20	6.00	6.10	0.04	2.44			
	15.00	20.00		1	5.00	6.00	6.30	6.15	0.04	1.23			
	20.00	45.00		1	25.00	6.30	6.60	6.45	0.04	6.45			
	45.00	60.00		1	15.00	6.60	6.30	6.45	0.04	3.87			
	60.00	66.00		1	6.00	6.30	6.80	6.55	0.04	1.57			
	66.00	71.30		1	5.30	6.80	5.60	6.20	0.04	1.31			
	71.30	85.00		1	13.70	5.60	6.30	5.95	0.04	3.26			
	85.00	100.00		1	15.00	6.30	5.40	5.85	0.04	3.51			
	100.00	108.80		1	8.80	5.40	6.30	5.85	0.04	2.06			
	108.80	123.50		1	14.70	6.30	5.90	6.10	0.04	3.59			
	8th 'B' Main road,Sanchar nagar												
	0.00	15.00		1	15.00	6.50	5.20	5.85	0.04	3.51			
	15.00	30.00		1	15.00	5.20	5.30	5.25	0.04	3.15			
	30.00	45.00		1	15.00	5.30	5.70	5.50	0.04	3.30			
	45.00	60.00		1	15.00	5.70	5.85	5.78	0.04	3.47			
	60.00	75.00		1	15.00	5.85	5.80	5.83	0.04	3.50			
	75.00	90.00		1	15.00	5.80	5.90	5.85	0.04	3.51			
	90.00	105.00		1	15.00	5.90	5.90	5.90	0.04	3.54			
	105.00	120.00		1	15.00	5.90	6.20	6.05	0.04	3.63			
	120.00	130.00		1	10.00	6.20	6.90	6.55	0.04	2.62			

143.71

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engine

Scanned by CamScanner

Name of Work :- Improvements to Road and Drains at Thanisandra Munisonnegowda Layout in Ward No.06(Thanisandra).

Byatarayanapura Sub Division

BOQ Item	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks / Unit	Rate	Amount
	7th 'A' Main road to Sanchar Bhavan												
	0.00	15.00		1	15.00	7.20	7.50	7.35	0.04	4.41			
	15.00	30.00		1	15.00	7.50	6.50	7.00	0.04	4.20			
	30.00	45.00		1	15.00	6.50	7.30	6.90	0.04	4.14			
	45.00	60.00		1	15.00	7.30	7.10	7.20	0.04	4.32			
	60.00	72.60		1	12.60	7.10	7.20	7.15	0.04	3.60			
	Kateramma Temple Opp.Rd												
	0.00	15.00		1	15.00	6.50	6.60	6.55	0.04	3.93			
	15.00	30.00		1	15.00	6.60	7.00	6.80	0.04	4.08			
	30.00	45.00		1	15.00	7.00	6.80	6.90	0.04	4.14			
	45.00	60.00		1	15.00	6.80	7.10	6.95	0.04	4.17			
	60.00	75.00		1	15.00	7.10	7.00	7.05	0.04	4.23			
	75.00	88.00		1	13.00	7.00	7.50	7.25	0.04	3.77			
	New Asphalt Road												
	Kateramma Temple2nd c/s Rd												
	0.00	15.00		1	15.00	4.50	4.40	4.45	0.04	2.67			
	15.00	30.00		1	15.00	4.40	5.25	4.83	0.04	2.90			
	30.00	45.00		1	15.00	5.25	5.20	5.23	0.04	3.14			
	45.00	60.00		1	15.00	5.20	5.30	5.25	0.04	3.15			
	60.00	75.00		1	15.00	5.30	5.20	5.25	0.04	3.15			
	75.00	91.20		1	16.20	5.20	5.20	5.20	0.04	3.37			
	Muni sonne Gowda Layout												
	1st cross												
	0.00	15.00		1	15.00	5.20	4.20	4.70	0.04	2.82			
	15.00	30.00		1	15.00	4.20	4.30	4.25	0.04	2.55			
	30.00	45.00		1	15.00	4.30	4.80	4.55	0.04	2.73			
	45.00	60.00		1	15.00	4.80	5.10	4.95	0.04	2.97			
	60.00	75.00		1	15.00	5.10	4.80	4.95	0.04	2.97			
	75.00	91.00		1	16.00	4.80	5.00	4.90	0.04	3.14			
	3rd cross												
	0.00	15.00		1	15.00	4.70	4.50	4.60	0.04	2.76			
	15.00	30.00		1	15.00	4.50	4.40	4.45	0.04	2.67			
	30.00	45.00		1	15.00	4.40	4.80	4.60	0.04	2.76			
	45.00	60.00		1	15.00	4.80	5.20	5.00	0.04	3.00			
	60.00	75.00		1	15.00	5.20	5.00	5.10	0.04	3.06			
	75.00	93.00		1	18.00	5.00	5.40	5.20	0.04	3.74			
								Total Quantity		271.30	Cum	9023.40	24,48,039.40
33	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803.(P.No.185, I.No.24.15 of PW,P&IWTD SR 2016-17)												
	10th main road,Sanchar nagar,MCECHS layout												
	Edge Line			2	125.70			0.10		25.14			
	11th main road,Sanchar nagar												
	Edge Line			2	121.30			0.10		24.26			
	9th ' A'Main road,Sanchar nagar(MCECHS)												
	Edge Line			2	86.50			0.10		17.30			

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

Scanned by CamScanner

Name of Work :- Improvements to Road and Drains at Thanisandra Munisonnegowda Layout in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks / Unit	Rate	Amount
	9th ' B'Main road,Sanchar nagar(MCECHS)											
	Edge Line		2	125.60			0.10		25.12			
	8th 'A' Main road,Sanchar nagar											
	Edge Line		2	123.50			0.10		24.70			
	8th 'B' Main road,Sanchar nagar											
	Edge Line		2	130.00			0.10		26.00			
	7th 'A' Main road to Sanchar Bhavan											
	Edge Line		2	72.60			0.10		14.52			
	Kateramma Temple Opp.Rd											
	Edge Line		2	88.00			0.10		17.60			
	Kateramma Temple2nd c/s Rd											
	Edge Line		2	91.20			0.10		18.24			
	Muni sonne Gowda Lyout											
	1st cross											
	Edge Line		2	91.00			0.10		18.20			
	3rd cross											
	Edge Line		2	93.00			0.10		18.60			
							Total Quantity		229.68	Sqm	581.10	1,33,535.95
										Grand Total		44,97,404.43

C/Rec 22/12/24

162.98

+44,97,410.42

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

Scanned by CamScanner

BRUHAT BANGALORE MAHANAGARA PALIKE
BYTARAYANPURA DIVISION

Name of Work: (As per sanctioned estimate): Package No.01
(Package consists of 18 works)

2. Improvement to Drains and Asphalting to Roads at Sadiq Layout Main Road and cross Road in Ward No.06(Thanisandra), Byatarayanapura Sub Division.

DETAILED-MEASUREMENT

FOURTH AND FINAL BILL

TEJUS CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No.58 MIG, 6th Cross, 3rd Main
1st Stage, Basaveshwaranagar
Bangalore-560079
☎ 080 - 23287532
email: tejusconsultants@gmail.com

Scanned by CamScanner

Detail Measurements

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Sub Division

Bill No : 4th & Final Bill

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Name of Work :- Improvement to Drains and Asphalting to Roads at Sadiq Layout Main Road and cross Road in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Unit / Remarks	Rate	Amount
3	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH - Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)											
	Qty Vide Pre-Measurement of Page No 1 to 7								1223.19			
	Qty to be Paid								**1223.19**	**Cum**	**228.60**	**2,79,621.23**
10	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.25, I.No.5.33 of PW, P&IWTD SR 2016-17)											
	Cover Slab											
	Maruthi Layout 8th cross Rd											
	LHS											
	0.00	30.00	L/S	0	30.00			0.60	0.00	Open drain		
	30.00	62.00	L/S	1	32.00			0.90	28.80	BS slab		
	62.00	90.00	L/S	0	28.00			0.60	0.00	Open drain		
	90.00	114.60	L/S	1	24.60			0.90	22.14	BS slab		
	114.60	121.50	L/S	0	6.90			0.60	0.00	Culvert		
	121.50	146.70	L/S	1	25.20			0.90	22.68	BS slab		
	146.70	301.10	L/S	0	154.40			0.60	0.00	Open drain		
	RHS											
	0.00	53.50	R/S	0	53.50			0.60	0.00	Open drain		
	53.50	68.60	R/S	1	15.10			0.90	13.59	BS slab		
	68.60	90.00	R/S	0	21.40			0.60	0.00	Open drain		
	90.00	123.50	R/S	0	33.50			0.60	0.00	Open drain		
	123.50	129.50	R/S	0	6.00			0.60	0.00	Culvert		
	129.50	160.00	R/S	1	30.50			0.90	27.45	BS slab		
	160.00	167.40	R/S	0	7.40			0.60	0.00	Culvert		
	167.40	192.80	R/S	1	25.40			0.90	22.86	BS slab		
	192.80	300.50	R/S	0	107.70			0.60	0.00	Open drain		
	Maruthi Layout 9th cross Rd											
	LHS											
	0.00	40.00	L/S	0	40.00			0.60	0.00	Open drain		
	40.00	60.00	L/S	1	20.00			0.90	18.00	BS slab		
	60.00	115.50	L/S	0	55.50			0.60	0.00	Open drain		
	115.50	121.50	L/S	1	6.00			0.60	3.60	Culvert		
	121.50	150.30	L/S	0	28.80			0.60	0.00	Open drain		
	150.30	169.00	L/S	1	18.70			0.90	16.83	BS slab		
	169.00	234.50	L/S	0	65.50			0.60	0.00	Open drain		
	234.50	240.00	L/S	0	5.50			0.60	0.00	No drain		
	240.00	284.20	L/S	0	44.20			0.60	0.00	Open drain		
	RHS											
	0.00	60.00	R/S	0	60.00			0.60	0.00	Open drain		
	60.00	68.00	R/S	1	8.00			0.90	7.20	BS slab		
	68.00	114.70	R/S	0	46.70			0.60	0.00	Open drain		
	114.70	122.50	R/S	0	7.80			0.60	0.00	Deck slab		
	122.50	150.30	R/S	0	27.80			0.60	0.00	Open drain		
	150.30	169.00	R/S	1	18.70			1.20	22.44	BS slab		
	169.00	234.50	R/S	0	65.50			0.60	0.00	Open drain		
	234.50	240.00	R/S	0	5.50			0.60	0.00	No drain		

c/f

205.59

Tejus Consultants

Contractor

Assistant Engineer 21/12/24

Assistant Executive Engineer

Scanned by CamScanner

Detail Measurements

Name of Work : - Improvement to Drains and Asphalting to Roads at Sadiq Layout Main Road and cross Road in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Unit Remarks	Rate	Amount
	240.00	284.20	R/S	0	44.20			0.60		0.00	Open drain		
	Maruthi Layout 10th cross Rd												
	LHS												
	0.00	58.40	L/S	0	58.40			0.60		0.00	Open drain		
	58.40	76.80	L/S	1	18.40			0.90		16.56	BS slab		
	76.80	86.50	L/S	0	9.70			0.60		0.00	Open drain		
	86.50	98.50	L/S	1	12.00			0.90		10.80	BS slab		
	98.50	114.80	L/S	0	16.30			0.60		0.00	Open drain		
	114.80	120.50	L/S	0	5.70			0.60		0.00	c/s rd No drain		
	120.50	130.00	L/S	0	9.50			0.60		0.00	Open drain		
	130.00	167.20	L/S	1	37.20			0.90		33.48	BS slab		
	167.20	185.50	L/S	0	18.30			0.60		0.00	Open drain		
	185.50	232.10	L/S	1	46.60			0.90		41.94	BS slab		
	232.10	238.50	L/S	0	6.40			0.60		0.00	No drain(c/s Rd)		
	238.50	269.70	L/S	1	31.20			0.90		28.08	BS slab		
	269.70	289.00	L/S	0	19.30			0.60		0.00	Open drain		
	RHS												
	0.00	114.80	R/S	0	114.80			0.60		0.00	Open drain		
	114.80	120.50	R/S	0	5.70			0.60		0.00	No drain(c/s Rd)		
	120.50	140.00	R/S	1	19.50			0.90		17.55	BS slab		
	140.00	167.20	R/S	0	27.20			0.60		0.00	Open drain		
	167.20	203.60	R/S	1	36.40			0.90		32.76	BS slab		
	203.60	212.70	R/S	0	9.10			0.60		0.00	Open drain		
	212.70	222.70	R/S	1	10.00			1.20		12.00	BS slab		
	222.70	232.10	R/S	0	9.40			0.60		0.00	Open drain		
	232.10	238.50	R/S	0	6.40			0.60		0.00	No drain(c/s Rd)		
	238.50	248.10	R/S	1	9.60			0.90		8.64	BS slab		
	248.10	269.70	R/S	0	21.60			0.60		0.00	Open drain		
	269.70	288.00	R/S	1	18.30			0.90		16.47	BS slab		
	Maruthi Layout 3rd A cross												
	LHS												
	0.00	9.20	L/S	1	9.20			0.90		8.28	BS slab		
	9.20	34.00	L/S	0	24.80			0.90		0.00	Open drain		
	34.00	42.40	L/S	0	8.40			0.90		0.00	No drain(c/s Rd)		
	42.40	67.80	L/S	0	25.40			0.90		0.00	Open drain		
	67.80	75.00	L/S	0	7.20			0.90		0.00	No drain(c/s Rd)		
	75.00	104.00	L/S	0	29.00			0.90		0.00	Open drain		
	RHS												
	0.00	9.20	R/S	1	9.20			0.90		8.28	BS slab		
	9.20	34.00	R/S	0	24.80			0.90		0.00	Open drain		
	34.00	42.40	R/S	0	8.40			0.90		0.00	No drain(c/s Rd)		
	42.40	67.80	R/S	0	25.40			0.90		0.00	Open drain		
	67.80	75.00	R/S	0	7.20			0.90		0.00	No drain(c/s Rd)		
	75.00	104.00	R/S	0	29.00			0.90		0.00	Open drain		
	Maruthi Layout 3rd A cross Parallel Rd												
	LHS												
	0.00	19.50	L/S	0	19.50			0.90		0.00	Open drain		
	19.50	35.50	L/S	1	16.00			0.90		14.40	BS slab		
	35.50	42.50	L/S	0	7.00			0.90		0.00	No drain		
	42.50	70.00	L/S	0	27.50			0.90		0.00	Open drain		
	70.00	76.00	L/S	0	6.00			0.90		0.00	No drain(10th c/s)		
	76.00	91.20	L/S	0	15.20			0.90		0.00	Open drain		
	91.20	105.70	L/S		14.50			0.90		13.05	BS slab		

Tejus Consultants

Contractor

Assistant Engineer 21/12/2021

Assistant Executive

Scanned by CamScanner

Name of Work : - Improvement to Drains and Asphalting to Roads at Sadiq Layout Main Road and cross Road in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Unit Remarks	Rate	Amount
	RHS												
	0.00	35.50	R/S	0	35.50			0.90		0.00	Open drain		
	35.50	42.50	R/S	0	7.00			0.90		0.00	No drain		
	42.50	57.50	R/S	0	15.00			0.90		0.00	Open drain		
	57.50	70.00	R/S	1	12.50			0.90		11.25	BS slab		
	70.00	76.00	R/S	0	6.00			0.90		0.00	No drain (c/s Rd)		
	76.00	105.70	R/S	1	29.70			0.90		26.73	BS slab		
	Thanisandra Soudemandi road												
	LHS												
	0.00	16.40	L/S	0	16.40			0.90		0.00	No drain		
	16.40	24.60	L/S	1	8.20			0.90		7.38	BS slab		
	24.60	26.70	L/S	0	2.10			0.90		0.00	Open drain		
	26.70	34.00	L/S	1	7.30			0.90		6.57	BS slab		
	34.00	53.50	L/S	0	19.50			0.90		0.00	Open drain		
	53.50	79.00	L/S	1	25.50			0.90		22.95	BS slab		
	79.00	89.00	L/S	0	10.00			0.90		0.00	Open drain		
	89.00	161.40	L/S	0	72.40			0.90		0.00	No drain		
	RHS												
	0.00	10.00	R/S	0	10.00			0.60		0.00	Open drain		
	10.00	24.60	R/S	0	14.60			0.60		0.00	Open drain		
	24.60	27.70	R/S	1	3.10			1.20		3.72	BS slab		
	27.70	43.40	R/S	1	15.70			0.90		14.13	BS slab		
	43.40	58.00	R/S	1	14.60			0.90		13.14	BS slab		
	58.00	67.00	R/S	0	9.00			0.90		0.00	Open drain		
	67.00	76.30	R/S	1	9.30			0.90		8.37	BS slab		
	76.30	81.00	R/S	0	4.70			0.90		0.00	Open drain		
	81.00	161.40	R/S	1	80.40			0.90		72.36	BS slab		
	Car Guarage road												
	LHS												
	0.00	12.50	L/S	0	12.50			0.90		0.00	Open drain		
	12.50	23.30	L/S	1	10.80			0.60		6.48	BS slab		
	23.30	40.00	L/S	0	16.70			0.90		0.00	Open drain		
	40.00	55.00	L/S	1	15.00			0.90		13.50	BS slab		
	55.00	60.00	L/S	0	5.00			0.90		0.00	Open drain		
	60.00	68.60	L/S	1	8.60			0.80		6.88	BS slab		
	68.60	101.00	L/S	0	32.40			0.90		0.00	Open drain		
	101.00	109.00	L/S	1	8.00			0.90		7.20	BS slab		
	109.00	113.00	L/S	0	4.00			0.90		0.00	Open drain		
	113.00	124.50	L/S	1	11.50			0.90		10.35	BS slab		
	124.50	133.00	L/S	0	8.50			0.90		0.00	Open drain		
	133.00	150.00	L/S	1	17.00			0.90		15.30	BS slab		
	150.00	161.00	L/S	0	11.00			0.90		0.00	Open drain		
	RHS												
	0.00	29.50	R/S	0	29.50			0.90		0.00	Open drain		
	29.50	34.50	R/S	1	5.00			0.90		4.50	BS slab		
	34.50	43.50	R/S	0	9.00			0.90		0.00	Open drain		
	43.50	55.00	R/S	1	11.50			0.90		10.35	BS slab		
	55.00	133.00	R/S	0	78.00			0.90		0.00	Open drain		
	133.00	155.00	R/S	0	22.00			0.90		0.00	Open drain		
	155.00	161.00	R/S	0	6.00			0.90		0.00	Open drain		
	Mamatha Scanning road												
	RHS												
	0.00	10.00	R/S	0	10.00			0.90		0.00	Open drain		
	10.00	25.00	R/S	1	15.00			0.90		13.50	BS slab		
	25.00	38.00	R/S	0	13.00			0.90		0.00	Open drain		

234.66

Tejus Consultants

Contractor

Assistant Engineer 4/12/2024

Assistant Executive Engineer

Scanned by CamScanner

Name of Work : - Improvement to Drains and Asphalting to Roads at Sadiq Layout Main Road and cross Road in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Unit Remarks	Rate	Amount
	38.00	90.00	R/S	1	52.00			0.90		46.80	BS slab		
	90.00	108.00	R/S	0	18.00			0.90		0.00	Open drain		
	108.00	129.50	R/S	1	21.50			0.90		19.35	BS slab		
	129.50	162.00	R/S	0	32.50			0.90		0.00	Open drain		
	Bhuvaneshwari nagar 20th												
	LHS												
	0.00	30.00	L/S	0	30.00			0.90		0.00	Open drain		
	30.00	60.00	L/S	1	30.00			0.90		27.00	BS slab		
	60.00	90.00	L/S	1	30.00			0.90		27.00	BS slab		
	90.00	120.00	L/S	0	30.00			0.90		0.00	Open drain		
	120.00	150.00	L/S	1	30.00			0.90		27.00	BS slab		
	150.00	180.00	L/S	0	30.00			0.90		0.00	Open drain		
	180.00	200.00	L/S	1	20.00			0.90		18.00	BS slab		
	200.00	215.00	L/S	0	15.00			0.90		0.00	Open drain		
	RHS												
	0.00	30.00	R/S	1	30.00			0.90		27.00	BS slab		
	30.00	60.00	R/S	0	30.00			0.90		0.00	Open drain		
	60.00	90.00	R/S	1	30.00			0.90		27.00	BS slab		
	90.00	120.00	R/S	0	30.00			0.90		0.00	Open drain		
	120.00	150.00	R/S	1	30.00			0.90		27.00	BS slab		
	150.00	180.00	R/S	0	30.00			0.90		0.00	Open drain		
	180.00	200.00	R/S	1	20.00			0.90		18.00	BS slab		
	200.00	215.00	R/S	0	15.00			0.90		0.00	Open drain		
	Connecting to 8th Cross Maruthi Layout												
	LHS												
	0.00	19.00	L/S	0	19.00			0.90		0.00	Open drain		
	19.00	30.00	L/S	1	11.00			0.90		9.90	0.9 BS slab		
	30.00	45.00	L/S	1	15.00			0.90		13.50	0.9 BS slab		
	45.00	60.00	L/S	1	15.00			0.90		13.50	0.9 BS slab		
	60.00	77.50	L/S	1	17.50			0.90		15.75	0.9 BS slab		
	77.50	90.00	L/S	0	12.50			0.90		0.00	Open drain		
	90.00	123.00	L/S	1	33.00			0.90		29.70	0.9 BS slab		
	123.00	139.80	L/S	0	16.80			0.90		0.00	Open drain		
	RHS												
	0.00	15.00	R/S	0	15.00			0.90		0.00	Open drain		
	15.00	30.00	R/S	0	15.00			0.90		0.00	Open drain		
	30.00	45.00	R/S	0	15.00			0.90		0.00	Open drain		
	45.00	53.00	R/S	0	8.00			0.90		0.00	Open drain		
	53.00	80.00	R/S	1	27.00			0.90		24.30	0.9 BS slab		
	80.00	89.50	R/S	1	9.50			1.20		11.40	Granite Slab 1.2		
	89.50	114.30	R/S	1	24.80			0.90		22.32	0.9 BS slab		
	114.30	139.80	R/S	0	25.50			0.90		0.00	Open drain		
	Connecting to 20th R Cross Rd												
	1st Cross												
	LHS												
	0.00	15.00	L/S	0	15.00			0.90		0.00	Open drain		
	15.00	19.00	L/S	1	4.00			0.90		3.60	0.9 BS slab		
	19.00	27.30	L/S	0	8.30			0.90		0.00	Open drain		
	27.30	36.50	L/S	1	9.20			0.90		8.28	Granite Slab 0.9		
	36.50	41.00	L/S	0	4.50			0.90		0.00	Open drain		
	41.00	46.70	L/S	1	5.70			0.90		5.13	0.9 BS slab		
	46.70	56.00	L/S	1	9.30			1.20		11.16	1.2 BS slab		
	56.00	74.00	L/S	1	18.00			0.90		16.20	0.9 BS slab		448.89

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

Scanned by CamScanner

Name of Work : - Improvement to Drains and Asphalting to Roads at Sadiq Layout Main Road and cross Road in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Unit / Remarks	Rate	Amount
	RHS												
	0.00	27.30	R/S	0	27.30			0.90		0.00	Open drain		
	27.30	38.10	R/S	1	10.80			0.90		9.72	0.9 BS slab		
	38.10	48.00	R/S	0	9.90			0.90		0.00	Open drain		
	48.00	66.00	R/S	1	18.00			0.90		16.20	0.9 BS slab		
	66.00	74.00	R/S	0	8.00			0.90		0.00	No Drain		
	2nd Cross												
	LHS												
	0.00	10.00	L/S	0	10.00			0.90		0.00	Open drain		
	10.00	28.50	L/S	1	18.50			0.90		16.65	0.9 BS slab		
	28.50	37.00	L/S	1	8.50			0.90		7.65	Granite Slab 0.9		
	37.00	59.00	L/S	0	22.00			0.90		0.00	Open drain		
	59.00	65.00	L/S	0	6.00			0.90		0.00	Deck Slab		
	65.00	74.00	L/S	0	9.00			0.90		0.00	Open drain		
	RHS												
	0.00	38.40	R/S	1	38.40			0.90		34.56	0.9 BS slab		
	38.40	62.00	R/S	0	23.60			0.90		0.00	Deck Slab		
	62.00	65.50	R/S	1	3.50			1.20		4.20	1.2 BS slab		
	65.50	74.00	R/S	0	8.50			0.90		0.00	Deck Slab		
	4th Cross												
	LHS												
	0.00	10.50	L/S	1	10.50			0.90		9.45	0.9 BS slab		
	10.50	47.00	L/S	0	36.50			0.90		0.00	Open drain		
	47.00	72.20	L/S	0	25.20			0.90		0.00	No Drain		
	RHS												
	0.00	29.00	R/S	1	29.00			0.90		26.10	0.9 BS slab		
	29.00	47.00	R/S	0	18.00			0.90		0.00	Open drain		
	47.00	57.00	R/S	1	10.00			0.90		9.00	0.9 BS slab		
	57.00	72.20	R/S	0	15.20			0.90		0.00	Open drain		
	5th Cross												
	LHS												
	0.00	34.00	L/S	0	34.00			0.90		0.00	No Drain		
	34.00	38.00	L/S	1	4.00			0.90		3.60	0.9 BS slab		
	38.00	70.50	L/S	0	32.50			0.90		0.00	Open drain		
	RHS												
	0.00	10.00	R/S	1	10.00			0.90		9.00	0.9 BS slab		
	10.00	28.00	R/S	0	18.00			0.90		0.00	No Drain		
	28.00	48.00	R/S	1	20.00			0.90		18.00	0.9 BS slab		
	48.00	70.50	R/S	0	22.50			0.90		0.00	No Drain		
	6th Cross												
	LHS												
	0.00	10.70	L/S	0	10.70			0.90		0.00	Open drain		
	10.70	15.00	L/S	1	4.30			1.50		6.45	1.5 BS slab		
	15.00	23.80	L/S	0	8.80			0.90		0.00	Open drain		
	23.80	27.30	L/S	1	3.50			1.50		5.25	1.5 BS slab		
	27.30	48.00	L/S	1	20.70			0.90		18.63	0.9 BS slab		
	48.00	69.50	L/S	0	21.50			0.90		0.00	No Drain		194.46
								Total Cover Slab Qty		**1385.89**			
	Bottom Slab												
	Maruthi Layout 8th cross Rd												
	LHS												
	0.00	30.00	L/S	0	30.00			1.35		0.00	Open drain		
	30.00	62.00	L/S	0	29.50			1.35		39.83	BS slab		
	62.00	90.00	L/S	1	28.00			1.35		37.80	Open drain		77.63

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

Scanned by CamScanner

Detail Measurements

Name of Work : - Improvement to Drains and Asphalting to Roads at Sadiq Layout Main Road and cross Road in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Unit Remarks	Rate	Amount
	90.00	114.60	L/S	1	22.60			1.35		30.51	BS slab		
	114.60	121.50	L/S	0	6.90			1.35		0.00	Culvert		
	121.50	146.70	L/S	1	21.60			1.35		29.16	BS slab		
	146.70	301.10	L/S	0	154.40			1.35		0.00	Open drain		
	RHS												
	0.00	53.50	R/S	0	53.50			1.35		0.00	Open drain		
	53.50	68.60	R/S	1	15.10			1.35		20.39	BS slab		
	68.60	90.00	R/S	0	21.40			1.35		0.00	Open drain		
	90.00	123.50	R/S	1	31.50			1.35		42.53	Open drain		
	123.50	129.50	R/S	0	6.00			1.35		0.00	Culvert		
	129.50	160.00	R/S	0	30.50			1.35		0.00	BS slab		
	160.00	167.40	R/S	0	7.40			1.35		0.00	Culvert		
	167.40	192.80	R/S	1	22.40			1.35		30.24	BS slab		
	192.80	300.50	R/S	0	107.70			1.35		0.00	Open drain		
	Maruthi Layout 9th cross Rd												
	LHS												
	0.00	40.00	L/S	1	40.00			1.35		54.00	Open drain		
	40.00	60.00	L/S	1	15.00			1.35		20.25	BS slab		
	60.00	115.50	L/S	0	55.50			1.35		0.00	Open drain		
	115.50	121.50	L/S	1	6.00			1.35		8.10	Culvert		
	121.50	150.30	L/S	1	22.80			1.35		30.78	Open drain		
	150.30	169.00	L/S	1	16.70			1.35		22.55	BS slab		
	169.00	234.50	L/S	0	65.50			1.35		0.00	Open drain		
	234.50	240.00	L/S	0	5.50			1.35		0.00	No drain		
	240.00	284.20	L/S	0	44.20			1.35		0.00	Open drain		
	RHS												
	0.00	60.00	R/S	0	60.00			1.35		0.00	Open drain		
	60.00	68.00	R/S	1	6.50			1.35		8.78	BS slab		
	68.00	114.70	R/S	0	46.70			1.35		0.00	Open drain		
	114.70	122.50	R/S	1	7.80			1.35		10.53	Deck slab		
	122.50	150.30	R/S	0	27.80			1.35		0.00	Open drain		
	150.30	169.00	R/S	1	15.50			1.35		20.93	BS slab		
	169.00	234.50	R/S	0	65.50			1.35		0.00	Open drain		
	234.50	240.00	R/S	0	5.50			1.35		0.00	No drain		
	240.00	284.20	R/S	0	44.20			1.35		0.00	Open drain		
	Maruthi Layout 10th cross Rd												
	LHS												
	0.00	58.40	L/S	0	58.40			1.35		0.00	Open drain		
	58.40	76.80	L/S	0	18.40			1.35		0.00	BS slab		
	76.80	86.50	L/S	1	9.70			1.35		13.10	Open drain		
	86.50	98.50	L/S	0	12.00			1.35		0.00	BS slab		
	98.50	114.80	L/S	1	16.30			1.35		22.01	Open drain		
	114.80	120.50	L/S	0	5.70			1.35		0.00	c/s rd No drain		
	120.50	130.00	L/S	1	9.50			1.35		12.83	Open drain		
	130.00	167.20	L/S	0	37.20			1.35		0.00	BS slab		
	167.20	185.50	L/S	1	18.30			1.35		24.71	Open drain		
	185.50	232.10	L/S	0	46.60			1.35		0.00	BS slab		
	232.10	238.50	L/S	0	6.40			1.35		0.00	No drain(c/s Rd)		
	238.50	269.70	L/S	0	31.20			1.35		0.00	BS slab		
	269.70	289.00	L/S	0	19.30			1.35		0.00	Open drain		
	RHS												
	0.00	114.80	R/S	0	114.80			1.35		0.00	Open drain		
	114.80	120.50	R/S	0	5.70			1.35		0.00	No drain(c/s Rd)		
	120.50	140.00	R/S	0	17.50			1.35		23.63	BS slab		
	140.00	167.20	R/S	0	27.20			1.35		0.00	Open drain		424.98

Tejus Consultants

Contractor

Assistant Engineer 4/12/2024

Assistant Executive Engineer

Scanned by CamScanner

Name of Work : - Improvement to Drains and Asphalting to Roads at Sadiq Layout Main Road and cross Road in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Unit Remarks	Rate	Amount
	167.20	203.60	R/S	0	36.40			1.35		0.00	BS slab		
	203.60	212.70	R/S	0	9.10			1.35		0.00	Open drain		
	212.70	222.70	R/S	1	7.00			1.35		9.45	BS slab		
	222.70	232.10	R/S	0	9.40			1.35		0.00	Open drain		
	232.10	238.50	R/S	0	6.40			1.35		0.00	No drain(c/s Rd)		
	238.50	248.10	R/S	0	9.60			1.35		0.00	BS slab		
	248.10	269.70	R/S	0	21.60			1.35		0.00	Open drain		
	269.70	288.00	R/S	1	15.30			1.35		20.66	BS slab		
	Maruthi Layout 3rd A cross												
	LHS												
	0.00	9.20	L/S	1	9.20			1.35		12.42	BS slab		
	9.20	34.00	L/S	0	24.80			1.35		0.00	Open drain		
	34.00	42.40	L/S	0	8.40			1.35		0.00	No drain(c/s Rd)		
	42.40	67.80	L/S	0	25.40			1.35		0.00	Open drain		
	67.80	75.00	L/S	0	7.20			1.35		0.00	No drain(c/s Rd)		
	75.00	104.00	L/S	0	29.00			1.35		0.00	Open drain		
	RHS												
	0.00	9.20	R/S	1	9.20			1.35		12.42	BS slab		
	9.20	34.00	R/S	0	24.80			1.35		0.00	Open drain		
	34.00	42.40	R/S	0	8.40			1.35		0.00	No drain(c/s Rd)		
	42.40	67.80	R/S	0	25.40			1.35		0.00	Open drain		
	67.80	75.00	R/S	0	7.20			1.35		0.00	No drain(c/s Rd)		
	75.00	104.00	R/S	0	29.00			1.35		0.00	Open drain		
	Maruthi Layout 3rd A cross Parallel Rd												
	LHS												
	0.00	19.50	L/S	1	19.50			1.35		26.33	Open drain		
	19.50	35.50	L/S	0	16.00			1.35		0.00	BS slab		
	35.50	42.50	L/S	0	7.00			1.35		0.00	No drain (c/s Rd)		
	42.50	70.00	L/S	0	27.50			1.35		0.00	Open drain		
	70.00	76.00	L/S	0	6.00			1.35		0.00	No drain(10th c/s)		
	76.00	91.20	L/S	1	15.20			1.35		20.52	Open drain		
	91.20	105.70	L/S	0	14.50			1.35		0.00	Open drain		
	RHS												
	0.00	35.50	R/S	1	35.50			1.35		47.93	Open drain		
	35.50	42.50	R/S	0	7.00			1.35		0.00	No drain		
	42.50	57.50	R/S	1	15.00			1.35		20.25	Open drain		
	57.50	70.00	R/S	0	12.50			1.35		0.00	0.9 BS slab		
	70.00	76.00	R/S	0	6.00			1.35		0.00	No drain (c/s Rd)		
	76.00	105.70	R/S	0	29.70			1.35		0.00	0.9 BS slab		
	Thanisandra Soudemandi road												
	LHS												
	0.00	16.40	L/S	0	16.40			1.35		0.00	No drain		
	16.40	24.60	L/S	1	6.20			1.35		8.37	BS slab		
	24.60	26.70	L/S	0	2.10			1.35		0.00	Open drain		
	26.70	34.00	L/S	0	7.30			1.35		0.00	BS slab		
	34.00	53.50	L/S	0	19.50			1.35		0.00	Open drain		
	53.50	79.00	L/S	0	25.50			1.35		0.00	BS slab		
	79.00	89.00	L/S	1	10.00			1.35		13.50	Open drain		
	89.00	161.40	L/S	0	72.40			1.35		0.00	No drain		
	RHS												
	0.00	10.00	R/S	1	10.00			1.35		13.50	Open drain		
	10.00	24.60	R/S	0	14.60			1.35		0.00	Open drain		
	24.60	27.70	R/S	1	1.10			1.35		1.49	BS slab		

206.82

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

Scanned by CamScanner

Detail Measurements

Name of Work : - Improvement to Drains and Asphalting to Roads at Sadiq Layout Main Road and cross Road in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Unit Remarks	Rate	Amount
	27.70	43.40	R/S	0	15.70			1.35		0.00	BS slab		
	43.40	58.00	R/S	1	12.10			1.35		16.34	BS slab		
	58.00	67.00	R/S	0	9.00			1.35		0.00	Open drain		
	67.00	76.30	R/S	1	7.30			1.35		9.86	BS slab		
	76.30	81.00	R/S	0	4.70			1.35		0.00	Open drain		
	81.00	161.40	R/S	0	80.40			1.35		0.00	BS slab		
	Car Guarage road												
	LHS												
	0.00	12.50	L/S	0	12.50			1.35		0.00	Open drain		
	12.50	23.30	L/S	1	7.30			1.35		9.86	BS slab		
	23.30	40.00	L/S	0	16.70			1.35		0.00	Open drain		
	40.00	55.00	L/S	1	12.50			1.35		16.88	BS slab		
	55.00	60.00	L/S	0	5.00			1.35		0.00	Open drain		
	60.00	68.60	L/S	1	5.60			1.35		7.56	BS slab		
	68.60	101.00	L/S	0	32.40			1.35		0.00	Open drain		
	101.00	109.00	L/S	1	6.00			1.35		8.10	BS slab		
	109.00	113.00	L/S	0	4.00			1.35		0.00	Open drain		
	113.00	124.50	L/S	1	9.00			1.35		12.15	BS slab		
	124.50	133.00	L/S	0	8.50			1.35		0.00	Open drain		
	133.00	150.00	L/S	0	17.00			1.35		0.00	BS slab		
	150.00	161.00	L/S	1	11.00			1.35		14.85	Open drain		
	RHS												
	0.00	29.50	R/S	0	29.50			1.35		0.00	Open drain		
	29.50	34.50	R/S	1	3.00			1.35		4.05	BS slab		
	34.50	43.50	R/S	1	9.00			1.35		12.15	Open drain		
	43.50	55.00	R/S	1	8.30			1.35		11.21	BS slab		
	55.00	133.00	R/S	0	78.00			1.35		0.00	Open drain		
	133.00	155.00	R/S	1	22.00			1.35		29.70	Open drain		
	155.00	161.00	R/S	1	6.00			1.35		8.10	Open drain		
	Mamatha Scanning road												
	RHS												
	0.00	10.00	R/S	1	10.00			1.35		13.50	Open drain		
	10.00	25.00	R/S	0	15.00			1.35		0.00	BS slab		
	25.00	38.00	R/S	1	13.00			1.35		17.55	Open drain		
	38.00	90.00	R/S	0	52.00			1.35		0.00	BS slab		
	90.00	108.00	R/S	0	18.00			1.35		0.00	Open drain		
	108.00	129.50	R/S	1	19.00			1.35		25.65	BS slab		
	129.50	162.00	R/S	0	32.50			1.35		0.00	Open drain		
	Bhuvaneshwari nagar 20th												
	LHS												
	0.00	30.00	L/S	1	30.00			1.35		40.50	Open drain		
	30.00	60.00	L/S	0	30.00			1.35		0.00	BS slab		
	60.00	90.00	L/S	0	30.00			1.35		0.00	BS slab		
	90.00	120.00	L/S	1	30.00			1.35		40.50	Open drain		
	120.00	150.00	L/S	0	30.00			1.35		0.00	BS slab		
	150.00	180.00	L/S	1	30.00			1.35		40.50	Open drain		
	180.00	200.00	L/S	0	20.00			1.35		0.00	BS slab		
	200.00	215.00	L/S	0	15.00			1.35		0.00	Open drain		
				0									
	RHS												
	0.00	30.00	R/S	1	25.00			1.35		33.75	BS slab		
	30.00	60.00	R/S	0	30.00			1.35		0.00	Open drain		
	60.00	90.00	R/S	1	26.80			1.35		36.18	BS slab		
	90.00	120.00	R/S	0	30.00			1.35		0.00	Open drain		

408.92

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

Scanned by CamScanner

Name of Work : - Improvement to Drains and Asphalting to Roads at Sadiq Layout Main Road and cross Road in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Unit Remarks	Rate	Amount
	120.00	180.00	R/S	0	30.00			1.35		0.00	BS slab		
	180.00	180.00	R/S	0	30.00			1.35		0.00	Open drain		
	180.00	200.00	R/S	1	18.00			1.35		24.30	BS slab		
	200.00	215.00	R/S	0	15.00			1.35		0.00	Open drain		
	Connecting to 8th Cross Maruthi Layout												
	LHS												
	0.00	19.00	L/S	0	19.00			1.35		0.00	Open drain		
	19.00	30.00	L/S	1	6.00			1.35		8.10	0.9 BS slab		
	30.00	45.00	L/S	0	15.00			1.35		0.00	0.9 BS slab		
	45.00	60.00	L/S	0	15.00			1.35		0.00	0.9 BS slab		
	60.00	77.50	L/S	1	13.00			1.35		17.55	0.9 BS slab		
	77.50	90.00	L/S	0	12.50			1.35		0.00	Open drain		
	90.00	123.00	L/S	0	33.00			1.35		0.00	0.9 BS slab		
	123.00	139.80	L/S	1	16.80			1.35		22.68	Open drain		
	RHS												
	0.00	15.00	R/S	0	15.00			1.35		0.00	Open drain		
	15.00	30.00	R/S	1	15.00			1.35		20.25	Open drain		
	30.00	45.00	R/S	0	15.00			1.35		0.00	Open drain		
	45.00	53.00	R/S	1	8.00			1.35		10.80	Open drain		
	53.00	80.00	R/S	0	27.00			1.35		0.00	0.9 BS slab		
	80.00	89.50	R/S	1	9.50			1.35		12.83	Granite Slab 1.2		
	89.50	114.30	R/S	0	24.80			1.35		0.00	0.9 BS slab		
	114.30	139.80	R/S	0	25.50			1.35		0.00	Open drain		
	Connecting to 20th R Cross Rd												
	1st Cross												
	LHS												
	0.00	15.00	L/S	0	15.00			1.35		0.00	Open drain		
	15.00	19.00	L/S	1	2.50			1.35		3.38	0.9 BS slab		
	19.00	27.30	L/S	0	8.30			1.35		0.00	Open drain		
	27.30	36.50	L/S	0	9.20			1.35		0.00	Granite Slab 0.9		
	36.50	41.00	L/S	1	4.50			1.35		6.08	Open drain		
	41.00	46.70	L/S	1	2.50			1.35		3.38	0.9 BS slab		
	46.70	56.00	L/S	0	9.30			1.35		0.00	1.2 BS slab		
	56.00	74.00	L/S	0	18.00			1.35		0.00	0.9 BS slab		
	RHS												
	0.00	27.30	R/S	0	27.30			1.35		0.00	Open drain		
	27.30	38.10	R/S	1	8.80			1.35		11.88	0.9 BS slab		
	38.10	48.00	R/S	0	9.90			1.35		0.00	Open drain		
	48.00	66.00	R/S	1	13.00			1.35		17.55	0.9 BS slab		
	66.00	74.00	R/S	0	8.00			1.35		0.00	No Drain		
	2nd Cross												
	LHS												
	0.00	10.00	L/S	0	10.00			1.35		0.00	Open drain		
	10.00	28.50	L/S	0	18.50			1.35		0.00	0.9 BS slab		
	28.50	37.00	L/S	1	8.50			1.35		11.48	Granite Slab 0.9		
	37.00	59.00	L/S	0	22.00			1.35		0.00	Open drain		
	59.00	65.00	L/S	0	6.00			1.35		0.00	Deck Slab		
	65.00	74.00	L/S	1	9.00			1.35		12.15	Open drain		
	RHS												
	0.00	38.40	R/S	0	38.40			1.35		0.00	0.9 BS slab		
	38.40	62.00	R/S	0	23.60			1.35		0.00	Deck Slab		
	62.00	65.50	R/S	1	2.00			1.35		2.70	1.2 BS slab		
	65.50	74.00	R/S	0	8.50			1.35		0.00	Deck Slab		

185.09

Tejus Consultants

Contractor

06-12-2024

Assistant Engineer

Assistant Executive Engineer

Scanned by CamScanner

Name of Work : - Improvement to Drains and Asphalting to Roads at Sadiq Layout Main Road and cross Road in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Unit Remarks	Rate	Amount
	4th Cross												
	LHS												
	0.00	10.80	L S	1	8.00			1.35		10.80	0.9 BS slab		
	10.80	47.00	L S	0	36.50			1.35		0.00	Open drain		
	47.00	72.20	L S	0	25.20			1.35		0.00	No Drain		
	RHS												
	0.00	29.00	R S	0	29.00			1.35		0.00	0.9 BS slab		
	29.00	47.00	R S	0	18.00			1.35		0.00	Open drain		
	47.00	57.00	R S	1	7.00			1.35		9.45	0.9 BS slab		
	57.00	72.20	R S	0	15.20			1.35		0.00	Open drain		
	5th Cross												
	LHS												
	0.00	34.00	L S	0	34.00			1.35		0.00	No Drain		
	34.00	38.00	L S	1	2.70			1.35		3.65	0.9 BS slab		
	38.00	70.50	L S	1	4.50			1.35		6.08	Open drain		
	RHS												
	0.00	10.00	R S	1	8.00			1.35		10.80	0.9 BS slab		
	10.00	28.00	R S	0	18.00			1.35		0.00	No Drain		
	28.00	48.00	R S	1	18.00			1.35		24.30	0.9 BS slab		
	48.00	70.50	R S	0	22.50			1.35		0.00	No Drain		
	6th Cross												
	LHS												
	0.00	10.70	L S	0	10.70			1.35		0.00	Open drain		
	10.70	15.00	L S	1	2.80			1.35		3.78	1.5 BS slab		
	15.00	23.80	L S	0	8.80			1.35		0.00	Open drain		
	23.80	27.30	L S	1	2.00			1.35		2.70	1.5 BS slab		
	27.30	48.00	L S	0	20.70			1.35		0.00	0.9 BS slab		
	48.00	69.50	L S	0	21.50			1.35		0.00	No Drain		
										1374.98	71.55		
					Deduct New Slab Qty					-137.50			2,26,657.00
							Total Qty			2623.37	Sqm	86.40	2,26,658.95

C/EE

Tejus Consultants

Contractor

6.12.2024

Assistant Engineer

Assistant Executive Engineer

Scanned by CamScanner

Name of Work : - Improvement to Drains and Asphalting to Roads at Sadiq Layout Main Road and cross Road in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Unit / Remarks	Rate	Amount
11	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 7.5cms thick (P.No.28, I.No.5.31.1 of PW. P&IWTD SR 2016-17)											
	Maruthi Layout 8th cross Rd											
	LHS											
	30.00	62.00	L/S	1	2.50			1.35		3.38 BS slab		
	90.00	114.60	L/S	1	2.00			1.35		2.70 BS slab		
	121.50	146.70	L/S	1	3.60			1.35		4.86 BS slab		
	RHS											
	167.40	192.80	R/S	1	3.00			1.35		4.05 BS slab		
	Maruthi Layout 9th cross Rd											
	LHS											
	150.30	169.00	L/S	1	2.00			1.35		2.70 BS slab		
	RHS											
	60.00	68.00	R/S	1	1.50			1.35		2.03 BS slab		
	150.30	169.00	R/S	1	3.20			1.35		4.32 BS slab		
	Maruthi Layout 10th cross Rd											
	RHS											
	120.50	140.00	R/S	1	2.00			1.35		2.70 BS slab		
	212.70	222.70	R/S	1	3.00			1.35		4.05 BS slab		
	269.70	288.00	R/S	1	3.00			1.35		4.05 BS slab		
	Thanisandra Soudemandi road											
	LHS											
	16.40	24.60	L/S	1	2.00			1.35		2.70 BS slab		
	RHS											
	24.60	27.70	R/S	1	2.00			1.35		2.70 BS slab		
	43.40	58.00	R/S	1	2.50			1.35		3.38 BS slab		
	67.00	76.30	R/S	1	2.00			1.35		2.70 BS slab		
	Car Guarage road											
	LHS											
	12.50	23.30	L/S	1	3.50			1.35		4.73 BS slab		
	40.00	55.00	L/S	1	2.50			1.35		3.38 BS slab		
	60.00	68.60	L/S	1	3.00			1.35		4.05 BS slab		
	101.00	109.00	L/S	1	2.00			1.35		2.70 BS slab		
	113.00	124.50	L/S	1	2.50			1.35		3.38 BS slab		
	RHS											
	29.50	34.50	R/S	1	2.00			1.35		2.70 BS slab		
	43.50	55.00	R/S	1	3.00			1.35		4.05 BS slab		
	Mamatha Scanning road											
	RHS											
	108.00	129.50	R/S	1	2.50			1.35		3.38 BS slab		
	Bhuvaneshwari nagar 20th											
	RHS											
	0.00	30.00	R/S	1	5.00			1.35		6.75 BS slab		
	60.00	90.00	R/S	1	3.20			1.35		4.32 BS slab		
	180.00	200.00	R/S	1	2.00			1.35		2.70 BS slab		
	Connecting to 8th Cross Maruthi Layout											
	LHS											

88.43

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

Scanned by CamScanner

Name of Work : - Improvement to Drains and Asphalting to Roads at Sadiq Layout Main Road and cross Road in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Unit Remarks	Rate	Amount
	19.00	30.00	L/S	1	5.00			1.35		6.75	0.9 BS slab		
	60.00	77.50	L/S	1	4.50			1.35		6.08	0.9 BS slab		
	Connecting to 20th R Cross Rd												
	1st Cross												
	LHS												
	15.00	19.00	L/S	1	1.50			1.35		2.03	0.9 BS slab		
	41.00	46.70	L/S	1	3.20			1.35		4.32	0.9 BS slab		
	RHS												
	27.30	38.10	R/S	1	2.00			1.35		2.70	0.9 BS slab		
	48.00	66.00	R/S	1	5.00			1.35		6.75	0.9 BS slab		
	2nd Cross												
	RHS												
	62.00	65.50	R/S	1	1.20			1.35		1.62	1.2 BS slab		
	4th Cross												
	LHS												
	0.00	10.50	L/S	1	2.50			1.35		3.38	0.9 BS slab		
	RHS												
	47.00	57.00	R/S	1	3.00			1.35		4.05	0.9 BS slab		
	5th Cross												
	LHS												
	34.00	38.00	L/S	1	1.20			1.35		1.62	0.9 BS slab		
	RHS												
	0.00	10.00	R/S	1	2.00			1.35		2.70	0.9 BS slab		
	28.00	48.00	R/S	1	2.30			1.35		3.11	0.9 BS slab		
	6th Cross												
	LHS												
	10.70	15.00	L/S	1	1.50			1.35		2.03	1.5 BS slab		
	23.80	27.30	L/S	1	1.50			1.35		2.03	1.5 BS slab		49.14
								Total Qty		137.57	Sqm	712.80	98,056.33
													98060.00
26	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14 of PW.P&IWTD S.R 2016-17)												
	Qty Vide Pre-Measurement of Page No 8 to 15									3778.92			
	Qty Limited to									3713.39			
	Qty to be Paid									3713.39	Cum	185.40	6,88,462.35
28	KSRRB M 400-17. Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base ' base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406 (P.No.158, I.No.20.18 of PW.P&IWTD SR 2016-17)												
	Qty Vide Pre-Measurement of Page No 16 to 23									3058.73			53,54,307
	Qty to be Paid									3058.73	Cum	1750.50	53,54,303.63

Tejus Consultants

Contractor

8-12-2021

Assistant Engineer

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ಸಹಾಯಕ Assistant Executive Engine

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Scanned by CamScanner

Detail Measurements

Name of Work : - Improvement to Drains and Asphalting to Roads at Sadiq Layout Main Road and cross Road in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Unit / Remarks	Rate	Amount
29	KSRRB M 500-6. Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.161, I.No.21.6 of PW,P&IWTD SR 2016-17)											
	Qty Vide Pre-Measurement of Page No 24 to 31								13298.82			.93
	Qty to be Paid								13298.82	Sqm	29.70	3,94,974.90
30	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5 (P.No.158, I.No.21.2 of PW,P&IWTD SR 2018-19)											
	Qty Vide Pre-Measurement of Page No 32 to 33 &								3895.86			.09
	Qty to be Paid								3895.86	Sqm	3.60	14,025.08
31	KSRRB M500-7 : Providing and applying tack coat using 80 100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.161 I.No.21.7 of PW,P&IWTD SR of 2016-17)											
	Qty Vide Pre-Measurement of Page No : 34 to 46								21101.57			
	Qty Limited to								12099.76			.76
	Qty to be Paid								12099.76	Sqm	13.50	1,63,346.82
32	KSRRB M500-19. Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.165 of I.No.21.22.6 in PW,P&IWTD S.R 2016-17)											
	For Laying BC											
	Maruthi layout 8th c/s											
	0.00	4.00		0	8.00	0.00	0.00	0.00	0.04	0.00		
	4.00	15.00		1	11.00	6.20	6.50	6.35	0.04	2.79		
	15.00	30.00		1	15.00	6.50	6.65	6.58	0.04	3.95		
	30.00	45.00		1	15.00	6.65	7.30	6.98	0.04	4.19		
	45.00	60.00		1	15.00	7.30	6.60	6.95	0.04	4.17		
	60.00	75.00		1	15.00	6.60	6.00	6.30	0.04	3.78		
	75.00	90.00		1	15.00	6.00	6.80	6.40	0.04	3.84		
	90.00	105.00		1	15.00	6.80	6.40	6.60	0.04	3.96		
	105.00	120.00		1	15.00	6.40	6.85	6.63	0.04	3.98		
	120.00	130.00		1	10.00	6.85	6.35	6.60	0.04	2.64		
	130.00	145.00		1	15.00	6.35	6.80	6.58	0.04	3.95		
	145.00	160.00		1	15.00	6.80	6.00	6.40	0.04	3.84		
	160.00	175.00		1	15.00	6.00	6.30	6.15	0.04	3.69		
	175.00	190.00		1	15.00	6.30	5.90	6.10	0.04	3.66		
	190.00	205.00		1	15.00	5.90	6.20	6.05	0.04	3.63		59.52
	205.00	220.00		1	15.00	6.20	6.30	6.25	0.04	3.75		
	220.00	235.00		1	15.00	6.30	6.10	6.20	0.04	3.72		

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

Scanned by CamScanner

Detail Measurements

Name of Work : - Improvement to Drains and Asphalting to Roads at Sadiq Layout Main Road and cross Road in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Unit / Remarks	Rate	Amount
	235.00	250.00		1	15.00	6.10	5.40	5.75	0.04	3.45			
	250.00	265.00		1	15.00	5.40	5.85	5.63	0.04	3.38			
	265.00	280.00		1	15.00	5.85	5.40	5.63	0.04	3.38			
	280.00	295.00		1	15.00	5.40	5.90	5.65	0.04	3.39			
	295.00	303.00		1	8.00	5.90	5.70	5.80	0.04	1.86			
	Manhole Deductions												
				-10				0.64	0.04	-0.25			
	Maruthi layout 9th c/s												
	0.00	3.00		1	3.00	6.50	5.90	6.20	0.04	0.74			
	3.00	15.00		1	12.00	5.90	6.10	6.00	0.04	2.88			
	15.00	30.00		1	15.00	6.10	6.30	6.20	0.04	3.72			
	30.00	45.00		1	15.00	6.30	6.10	6.20	0.04	3.72			
	45.00	60.00		1	15.00	6.10	6.40	6.25	0.04	3.75			
	60.00	75.00		1	15.00	6.40	5.90	6.15	0.04	3.69			
	75.00	90.00		1	15.00	5.90	5.70	5.80	0.04	3.48			
	90.00	105.00		1	15.00	5.70	6.00	5.85	0.04	3.51			
	105.00	120.00		1	15.00	6.00	6.20	6.10	0.04	3.66			
	120.00	135.00		1	15.00	6.20	5.50	5.85	0.04	3.51			
	135.00	150.00		1	15.00	5.50	5.55	5.53	0.04	3.32			
	150.00	165.00		1	15.00	5.55	5.80	5.68	0.04	3.41			
	165.00	180.00		1	15.00	5.80	5.00	5.40	0.04	3.24			
	180.00	195.00		1	15.00	5.00	5.90	5.45	0.04	3.27			
	195.00	210.00		1	15.00	5.90	6.50	6.20	0.04	3.72			
	210.00	225.00		1	15.00	6.50	5.20	5.85	0.04	3.51			
	225.00	240.00		1	15.00	5.20	6.40	5.80	0.04	3.48			
	240.00	255.00		1	15.00	6.40	5.60	6.00	0.04	3.60			
	255.00	270.00		1	15.00	5.60	4.60	5.10	0.04	3.06			
	270.00	285.50		1	15.50	4.60	4.10	4.35	0.04	2.70			
	Manhole Deductions												
				-3				0.64	0.04	-0.08			
	Bhuvenshwari nagar 20th c/s												
	0.00	4.00		1	4.00	7.50	6.10	6.80	0.04	1.09			
	4.00	15.00		1	11.00	6.10	6.10	6.10	0.04	2.68			
	15.00	30.00		1	15.00	6.10	6.00	6.05	0.04	3.63			
	30.00	35.00		1	5.00	6.00	6.00	6.00	0.04	1.20			
	35.00	65.00		1	30.00	6.50	6.50	6.50	0.04	7.80			
	65.00	95.00		1	30.00	6.10	6.00	6.05	0.04	7.26			
	95.00	125.00		1	30.00	6.70	6.60	6.65	0.04	7.98			
	125.00	155.00		1	30.00	5.50	5.40	5.45	0.04	6.54			
	155.00	175.60		1	20.60	5.20	5.10	5.15	0.04	4.24			
	175.60	198.60		1	23.00	5.50	5.40	5.45	0.04	5.01			
	198.60	215.00		1	16.40	6.70	6.60	6.65	0.04	4.36			
	New Asphalt												
	Maruthi Layout 10th cross												
	0.00	15.00		1	15.00	6.70	6.20	6.45	0.04	3.87			
	15.00	30.00		1	15.00	6.20	5.80	6.00	0.04	3.60			
	30.00	45.00		1	15.00	5.80	6.00	5.90	0.04	3.54			
	45.00	60.00		1	15.00	6.00	5.50	5.75	0.04	3.45			
	60.00	70.00		1	10.00	5.50	6.20	5.85	0.04	2.34			
	70.00	80.00		1	10.00	6.20	6.00	6.10	0.04	2.44			
	80.00	95.00		1	15.00	6.00	5.30	5.65	0.04	3.39			
	95.00	110.00		1	15.00	5.30	5.90	5.60	0.04	3.36			
	110.00	125.00		1	15.00	5.90	6.10	6.00	0.04	3.60			
	125.00	140.00		1	15.00	6.10	5.70	5.90	0.04	3.54			
	140.00	150.00		1	10.00	5.70	5.80	5.75	0.04	2.30			168.31

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

Scanned by CamScanner

Name of Work : - Improvement to Drains and Asphalting to Roads at Sadiq Layout Main Road and cross Road in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Unit Remarks	Rate	Amount
	150.00	162.00		1	12.00	5.80	5.30	5.55	0.04	2.66			
	162.00	180.00		1	18.00	5.30	6.00	5.65	0.04	4.07			
	180.00	195.00		1	15.00	6.00	6.00	6.00	0.04	3.60			
	195.00	210.00		1	15.00	6.00	6.00	6.00	0.04	3.60			
	210.00	225.00		1	15.00	6.00	5.70	5.85	0.04	3.51			
	225.00	240.00		1	15.00	5.70	5.90	5.80	0.04	3.48			
	240.00	255.00		1	15.00	5.90	5.90	5.90	0.04	3.54			
	255.00	261.00		1	6.00	5.90	5.00	5.45	0.04	1.31			
	261.00	270.00		1	9.00	5.00	5.20	5.10	0.04	1.84			
	270.00	287.50		1	17.50	5.20	5.20	5.20	0.04	3.64			
	Maruthi Layout 3rd A cross												
	0.00	30.00		1	30.00	5.30	5.50	5.40	0.04	6.48			
	30.00	34.00		1	4.00	5.50	5.20	5.35	0.04	0.86			
	34.00	42.00		0	0.00	5.20	5.00	5.10	0.04	0.00			
	42.00	67.80		1	25.80	5.00	5.00	5.00	0.04	5.16			
	67.80	75.00		0	0.00	5.00	5.00	5.00	0.04	0.00			
	75.00	104.00		1	29.00	5.00	5.10	5.05	0.04	5.86			
	Maruthi Layout 3rd A cross Parallel Rd												
	0.00	1.90		0	0.00	0.00	0.00	0.00	0.04	0.00			
	1.90	15.00		1	13.10	4.50	4.00	4.25	0.04	2.23			
	15.00	30.00		1	15.00	4.00	4.50	4.25	0.04	2.55			
	30.00	36.00		1	6.00	4.50	4.50	4.50	0.04	1.08			
	36.00	42.40		0	0.00	4.50	5.10	4.80	0.04	0.00			
	42.40	48.50		1	6.10	5.50	5.00	5.25	0.04	1.28			
	48.50	55.00		1	6.50	5.00	5.00	5.00	0.04	1.30			
	55.00	70.00		1	15.00	5.00	5.00	5.00	0.04	3.00			
	70.00	76.00		0	0.00	5.00	4.30	4.65	0.04	0.00			
	76.00	79.50		1	3.50	5.50	4.80	5.15	0.04	0.72			
	79.50	92.00		1	12.50	4.80	4.80	4.80	0.04	2.40			
	92.00	106.00		1	14.00	4.80	4.80	4.80	0.04	2.69			
	Thanisandra Soudenandi Rd												
	0.00	1.40		0	1.40	0.00	0.00	0.00	0.04	0.00			
	1.40	5.00		1	3.60	4.60	4.60	4.60	0.04	0.66			
	5.00	15.00		1	10.00	4.60	4.60	4.60	0.04	1.84			
	15.00	30.00		1	15.00	4.60	3.90	4.25	0.04	2.55			
	30.00	45.00		1	15.00	3.90	4.20	4.05	0.04	2.43			
	45.00	60.00		1	15.00	4.20	4.50	4.35	0.04	2.61			
	60.00	75.00		1	15.00	4.50	4.00	4.25	0.04	2.55			
	75.00	90.00		1	15.00	4.00	4.20	4.10	0.04	2.46			
	90.00	105.00		1	15.00	4.20	4.70	4.45	0.04	2.67			
	105.00	120.00		1	15.00	4.70	3.60	4.15	0.04	2.49			
	120.00	135.00		1	15.00	3.60	2.90	3.25	0.04	1.95			
	135.00	145.00		1	10.00	2.90	3.30	3.10	0.04	1.24			
	145.00	161.40		1	16.40	3.30	3.00	3.15	0.04	2.07			
	Manhole Deductions												
	MH1 'a 111.4			-1				0.64	0.04	-0.03			
	MH2 'a 129			-1				0.64	0.04	-0.03			
	MH3 'a 160			-1				0.64	0.04	-0.03			
	Thanisandra Car guarage Rd												
	0.00	1.20		0	1.20	0.00	0.00	0.00	0.04	0.00			
	1.20	15.00		1	13.80	5.00	5.30	5.15	0.04	2.84			
	15.00	30.00		1	15.00	5.30	5.00	5.15	0.04	3.09			

Tejus Consultants

Contractor

Assistant Engineer 07-02-22

Assistant Executive Engineer

Scanned by CamScanner

Detail Measurements

Name of Work : - Improvement to Drains and Asphalting to Roads at Sadiq Layout Main Road and cross Road in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Unit Remarks	Rate	Amount
	30.00	45.00		1	15.00	5.00	4.70	4.85	0.04	2.91			
	45.00	60.00		1	15.00	4.70	4.80	4.75	0.04	2.85			
	60.00	75.00		1	15.00	4.80	5.10	4.95	0.04	2.97			
	75.00	90.00		1	15.00	5.10	4.30	4.70	0.04	2.82			
	90.00	105.00		1	15.00	4.30	4.70	4.50	0.04	2.70			
	105.00	120.00		1	15.00	4.70	4.30	4.50	0.04	2.70			
	120.00	135.00		1	15.00	4.30	3.40	3.85	0.04	2.31			
	135.00	150.00		1	15.00	3.40	3.90	3.65	0.04	2.19			
	150.00	162.20		1	12.20	3.90	4.50	4.20	0.04	2.05			
	Manhole Deductions												
	MH1			-1				0.64	0.04	-0.03			
	MH2 @77.7			-1				0.64	0.04	-0.03			
	MH3			-1				0.64	0.04	-0.03			
	MH4			-1				0.64	0.04	-0.03			
	Mamatha Scanning Rd												
	0.00	1.00		0	1.00	0.00	0.00	0.00	0.04	0.00			
	1.00	15.00		1	14.00	4.50	4.00	4.25	0.04	2.38			
	15.00	30.00		1	15.00	4.00	4.10	4.05	0.04	2.43			
	30.00	45.00		1	15.00	4.10	4.30	4.20	0.04	2.52			
	45.00	60.00		1	15.00	4.30	4.30	4.30	0.04	2.58			
	60.00	75.00		1	15.00	4.30	4.20	4.25	0.04	2.55			
	75.00	90.00		1	15.00	4.20	4.40	4.30	0.04	2.58			
	90.00	105.00		1	15.00	4.40	4.50	4.45	0.04	2.67			
	105.00	120.00		1	15.00	4.50	4.60	4.55	0.04	2.73			
	120.00	135.00		1	15.00	4.60	4.40	4.50	0.04	2.70			
	135.00	150.00		1	15.00	4.40	4.60	4.50	0.04	2.70			
	150.00	160.40		1	10.40	4.60	4.00	4.30	0.04	1.79			
	Connected to 8th cross Rd Maruthi Layout												
	1st Cross												
	0.00	2.00		0	0.00	0.00	0.00	0.00	0.04	0.00			
	2.00	15.00		1	13.00	5.00	4.90	4.95	0.04	2.57			
	15.00	30.00		1	15.00	4.90	4.50	4.70	0.04	2.82			
	30.00	45.00		1	15.00	4.50	5.30	4.90	0.04	2.94			
	45.00	60.00		1	15.00	5.30	5.50	5.40	0.04	3.24			
	60.00	75.00		1	15.00	5.50	5.00	5.25	0.04	3.15			
	75.00	90.00		1	15.00	5.00	5.50	5.25	0.04	3.15			
	90.00	105.00		1	15.00	5.50	5.40	5.45	0.04	3.27			
	105.00	120.00		1	15.00	5.40	5.50	5.45	0.04	3.27			
	120.00	135.60		1	15.60	5.50	4.80	5.15	0.04	3.21			
	Connected to 20th R cross Rd												
	6th cross(Amba Bhavani Temple Road)												
	0.00	15.00		1	15.00	5.20	5.30	5.25	0.04	3.15			
	15.00	30.00		1	15.00	6.20	5.50	5.85	0.04	3.51			
	30.00	42.40		1	12.40	5.50	5.10	5.30	0.04	2.63			
	42.40	60.00		1	17.60	5.10	5.70	5.40	0.04	3.80			
	60.00	66.50		1	6.50	5.70	5.60	5.65	0.04	1.47			
	66.50	72.50		0	6.00	0.00	0.00	0.00	0.04	0.00			
	72.50	74.50		0	2.00	0.00	0.00	0.00	0.04	0.00			
	74.50	90.00		1	15.50	4.20	5.00	4.60	0.04	2.85			
	90.00	105.00		1	15.00	5.00	5.40	5.20	0.04	3.12			
	105.00	107.00		1	2.00	5.40	5.00	5.20	0.04	0.42			
	107.00	112.00		1	5.00	5.00	5.50	5.25	0.04	1.05			
	112.00	125.00		1	13.00	5.50	5.00	5.25	0.04	2.73			

103.38

Tejus Consultants

Contractor

Assistant Engineer 10-02-2022

Assistant Executive Engineer

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Detail Measurements

Name of Work : - Improvement to Drains and Asphalting to Roads at Sadiq Layout Main Road and cross Road in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Unit / Remarks	Rate	Amount
	125.00	140.00		1	15.00	5.00	4.90	4.95	0.04	2.97			
	140.00	146.80		1	6.80	4.90	4.50	4.70	0.04	1.33			
	Manhole Deductions												
	MH1 'a'13.4			-1				0.64	0.04	-0.03			
	MH2 'a'45.1			-1				0.64	0.04	-0.03			
	MH3			-1				0.64	0.04	-0.03			
	MH4			-1				0.64	0.04	-0.03			
	5th cross												
	0.00	1.50		0	0.00	0.00	0.00	0.00	0.04	0.00			
	1.50	15.00		1	13.50	5.20	5.50	5.35	0.04	2.89			
	15.00	30.00		1	15.00	5.50	5.80	5.65	0.04	3.39			
	30.00	45.00		1	15.00	5.80	5.80	5.80	0.04	3.48			
	45.00	60.00		1	15.00	5.80	5.70	5.75	0.04	3.45			
	60.00	75.00		1	15.00	5.70	5.30	5.50	0.04	3.30			
	75.00	85.20		1	10.20	5.30	5.20	5.25	0.04	2.14			
	Manhole Deductions												
	MH1 'a'39			-1				0.64	0.04	-0.03			
	MH2 'a'58.7			-1				0.64	0.04	-0.03			
	MH3			-1				0.64	0.04	-0.03			
	4th cross												
	0.00	1.50		0	0.00	0.00	0.00	0.00	0.04	0.00			
	1.50	15.00		1	13.50	5.10	5.30	5.20	0.04	2.81			
	15.00	30.00		1	15.00	5.30	5.10	5.20	0.04	3.12			
	30.00	45.00		1	15.00	5.10	5.40	5.25	0.04	3.15			
	45.00	60.00		1	15.00	5.40	5.10	5.25	0.04	3.15			
	60.00	70.00		1	10.00	5.10	5.10	5.10	0.04	2.04			
	Manhole Deductions												
	MH1 'a'31.1			-1				0.64	0.04	-0.03			
	3rd cross												
	0.00	1.50		0	0.00	0.00	0.00	0.00	0.04	0.00			
	1.50	15.00		1	13.50	6.00	5.20	5.60	0.04	3.02			
	15.00	30.00		1	15.00	5.20	5.20	5.20	0.04	3.12			
	30.00	45.00		1	15.00	5.20	5.00	5.10	0.04	3.06			
	45.00	60.00		1	15.00	5.00	5.40	5.20	0.04	3.12			
	60.00	69.00		1	9.00	5.40	5.40	5.40	0.04	1.94			
	Manhole Deductions												
	MH1 'a'26.4			-1	0.00	0.00		0.64	0.04	-0.03			
	2nd cross												
	0.00	1.50		0	0.00	0.00	0.00	0.00	0.04	0.00			
	1.50	15.00		1	13.50	5.30	5.40	5.35	0.04	2.89			
	15.00	30.00		1	15.00	5.40	5.50	5.45	0.04	3.27			
	30.00	45.00		1	15.00	5.80	6.00	5.75	0.04	3.45			
	45.00	60.00		1	15.00	6.00	5.10	5.55	0.04	3.33			
	60.00	69.20		1	9.20	5.10	5.40	5.25	0.04	1.93			
	Manhole Deductions												
	MH1 'a'58.7			-1	0.00	0.00		0.64	0.04	-0.03			
	Sadiq Layout Main road												
	0.00	1.50		1	1.50	0.00	0.00	0.00	0.04	0.00			
	1.50	30.00		1	28.50	9.30	9.50	9.40	0.04	10.72			
	30.00	60.00		1	30.00	9.50	9.00	9.25	0.04	11.10			

87.78

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

Scanned by CamScanner

Name of Work : - Improvement to Drains and Asphalting to Roads at Sadiq Layout Main Road and cross Road in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Unit Remarks	Rate	Amount
	60.00	90.00		1	30.00	9.00	11.00	10.00	0.04	12.00			
	90.00	110.00		1	20.00	11.00	8.00	9.50	0.04	7.60			
	110.00	120.00		1	10.00	8.00	7.50	7.75	0.04	3.10			
	120.00	150.00		1	30.00	7.50	8.00	7.75	0.04	9.30			
	150.00	180.00		1	30.00	8.00	8.50	8.25	0.04	9.90			
	180.00	210.00		1	30.00	8.50	9.10	8.80	0.04	10.56			
	210.00	240.00		1	30.00	9.10	9.20	9.15	0.04	10.98			
	240.00	270.00		1	30.00	9.20	8.00	8.60	0.04	10.32			
	270.00	300.00		1	30.00	8.00	9.20	8.60	0.04	10.32			
	300.00	330.00		1	30.00	9.20	8.00	8.60	0.04	10.32			
	330.00	360.00		1	30.00	8.00	8.00	8.00	0.04	9.60			
	360.00	377.00		1	17.00	8.00	8.00	8.00	0.04	5.44			
	377.00	388.00		1	11.00	12.60	12.60	12.60	0.04	5.54			
	388.00	407.00		1	19.00	9.60	9.60	9.60	0.04	7.30			
	407.00	430.00		1	23.00	9.60	9.60	9.60	0.04	8.83			
	430.00	456.00		1	26.00	8.10	8.10	8.10	0.04	8.42			
	456.00	462.00		1	6.00	8.10	11.00	9.55	0.04	2.29			
	Jaffer Sadique Masjid opp.road												
	0.00	15.00		1	15.00	4.50	4.50	4.50	0.04	2.70			
	15.00	30.00		1	15.00	4.50	4.10	4.30	0.04	2.58			
	30.00	45.00		1	15.00	4.10	4.40	4.25	0.04	2.55			
	45.00	60.00		1	15.00	4.40	5.20	4.80	0.04	2.88			
	60.00	75.00		1	15.00	5.20	4.30	4.75	0.04	2.85			
	75.00	90.00		1	15.00	4.30	4.80	4.55	0.04	2.73			
	90.00	105.00		1	15.00	4.80	5.20	5.00	0.04	3.00			
	105.00	115.00		1	10.00	5.20	5.20	5.20	0.04	2.08		163.20	
								Total Quantity		680.42	Cum	9023.40	61,39,692.62
33	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803,(P.No.185, I.No.24.15 of PW,P&IWTD SR 2016-17)												
	Maruthi layout 8th c/s												
	Edge Line			2	307.00			0.10		61.40			
	Maruthi layout 9th c/s												
	Edge Line			2	285.50			0.10		57.10			
	Bhuvenshwari nagar 20th c/s												
	Edge Line			2	215.00			0.10		43.00			
	Maruthi Layout 10th cross												
	Edge Line			2	287.50			0.10		57.50			
	Maruthi Layout 3rd A cross												
	Edge Line			2	88.80			0.10		17.76			
	Maruthi Layout 3rd A cross Parallel Rd												
	Edge Line			2	91.70			0.10		18.34			
	Thanisandra Soudemandi Rd												
	Edge Line			2	161.40			0.10		32.28			
	Thanisandra Car guarage Rd												
	Edge Line			2	162.20			0.10		32.44			
	Mamatha Scanning Rd												
	Edge Line			2	159.40			0.10		31.88			
	Connected to 8th cross Rd/Maruthi Layout												351.70

Tejus Consultants

Contractor

Assistant Executive Engineer

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Name of Work : - Improvement to Drains and Asphalting to Roads at Sadiq Layout Main Road and cross Road in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Unit / Remarks	Rate	Amount
	1st Cross											
	Edge Line		2	133.60			0.10		26.72			
	Connected to 20th R cross Rd											
	6th cross(Amba Bhavani Temple Road)											
	Edge Line		2	146.50			0.10		29.30			
	5th cross											
	Edge Line		2	83.70			0.10		16.74			
	4th cross											
	Edge Line		2	68.50			0.10		13.70			
	3rd cross											
	Edge Line		2	67.50			0.10		13.50			
	2nd cross											
	Edge Line		2	67.70			0.10		13.54			
	Sadiq Layout Main road											
	Edge Line		2	460.50			0.10		92.10			
	Jaffer Sadique Masjid opp.road											
	Edge Line		2	115.00			0.10		23.00		228.60	
							Total Quantity		580.30	Sqm	581.40	3,37,386.42
E1	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH											
	Qty Vide Pre-Measurement of Page No 41								204.56			17,45,435.00
	Qty to be Paid								204.56	Cum	8532.63	17,45,392.13
											Grand Total	1,54,41,920.47

1,54,41,979.95

Tejus Consultants

Contractor

Assistant Engineer

18.2.2022

Assistant Executive Engineer

Scanned by CamScanner

BRUHAT BANGALORE MAHANAGARA PALIKE
BYTARAYANPURA DIVISION

Name of Work: (As per sanctioned estimate): Package No.01
(Package consists of 18 works)

3. Improvement to Drains and Asphalting to Road at SVN School Road Krishnappa House to Venkatesh House Road in Ward No.06(Thanisandra), Byatarayanapura Sub Division.

DETAILED-MEASUREMENT

FOURTH AND FINAL BILL

TEJUS CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No.58 MIG, 6th Cross, 3rd Main
1st Stage, Basaveshwaranagar
Bangalore-560079
☎ 080 - 23287532
email: tejusconsultants@gmail.com

Scanned by CamScanner

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Sub Division

Bill No :4th & Final Bill

Name of Agency : Benaka Developers & Project Pvt.Ltd.

Name of Work : Project: 11.Improvement to Drains and Asphalting to Road at SVN School Road Krishnappa House to Venkatesh House Road in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks	Rate	Amount
3	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)											
	Qty Vide Pre-Measurement of Page No 1 to 3								220.10			50315.00
	Qty to be Paid								**220.10**	**cum**	**228.60**	**50,315.77**
	Measurement Recorded on											
10	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.25, I.No.5.33 of PW, P&IWTD SR 2016-17)											
	Telecom layout Thanisandra											
	1st main road (SVN School)											
	LHS											
	9.60	15.10	L/S	1	5.50			0.90	4.95			
	RHS											
	9.60	15.10	R/S	1	5.50			0.90	4.95			
	15.10	30.80	R/S	1	15.70			0.90	14.13			
	181.00	200.00	R/S	1	19.00			0.90	17.10			
	5th Main Rd Sanchara Nagara											
	LHS											
	39.50	45.40	L/S	1	5.90			0.90	5.31			
	98.40	104.00	L/S	1	5.60			0.90	5.04			
	RHS											
	39.50	49.10	R/S	1	9.60			0.90	8.64			
	67.30	76.00	R/S	1	8.70			0.90	7.83			
								Total Quantity	**67.95**	**Sqm**	**86.40**	**5,870.88**
13	KSRB 5.2-3: Providing and constructing granite size stone masonry in foundation cement mortor1:6, stone hammered dressed in courses not less than 20cms high, bond stones at 2m. apart in each course including cost of materaials, labour, curing complete as per specifications.Specifcation No. KBS 5.1.13.(using available stones) (P.No.23, I.No.5.6 of PW, P&IWTD S.R 2016-17)											
	Qty Vide Pre-Measurement of Page No 4								3.46			16,445.00
	Qty to be Paid								**3.46**	**Cum**	**4752.90**	**16,426.02**
14	KSRB 15.1.1 Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (P.No.113, I.No.15.1 of PW, P&IWTD S.R 2016-17)											
	Qty Vide Pre-Measurement of Page No 4								8.64			
	Qty to be Paid								**8.64**	**Sqm**	**109.80**	**948.67**

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

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Name of Work :-Project: 11.Improvement to Drains and Asphalting to Road at SVN School Road Krishnappa House to Venkatesh House Road in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks	Rate	Amount
15	KSRB 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs. with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum andfine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms.thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM ofmachinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12,I.No.4.6 of PW.P&IWTD S.R 2016-17)											
	Qty Vide Pre-Measurement of Page No 4								0.67			3825.00
	Qty to be Paid								0.67	Cum	5709.60	3,836.85
16	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs. with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.2 of PW.P&IWTD S.R 2016-17)											
	Qty Vide Pre-Measurement of Page No 5 to 6								171.60			908725.00
	Qty to be Paid								171.60	Cum	5295.60	9,08,736.88
	Measurement Recorded on											
23	Providing and fixing RCC Precast cover slab of 250mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc. complete and as per drawing and the directions of Engineer in-charge. (Data Rate)											
	For New Culvert											
	Krishnappa House road											
	Culvert - 1		1	3.60			1.20		4.32			
	Culvert - 2		1	4.80			1.20		5.76			
							Total Quantity		**10.08**	**Sqm**	**5347.50**	**53,902.80**
24	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) ((P.No.177, I.No.22.6.1 of											
	Concrete Road											
	Venkatesh House Road											
	0.00	15.00		1	15.00	3.60	4.80	4.20	0.15	9.45		
	15.00	26.40		1	11.40	4.80	3.60	4.20	0.15	7.18		
	26.40	41.40		1	15.00	3.60	4.70	4.15	0.15	9.34		
	41.40	56.40		1	15.00	4.70	4.50	4.60	0.15	10.35		
	56.40	71.40		1	15.00	4.50	4.75	4.63	0.15	10.41		

Tejus Consultants

Contractor

Assistant Engineer 28.4.2021

Assistant Executive Engineer

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Name of Work :-Project: 11.Improvement to Drains and Asphalting to Road at SVN School Road Krishnappa House to Venkatesh House Road in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item	Description	Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks	Rate	Amount
	71.40	81.00		1	9.60	4.75	5.10	4.93	0.15	7.09			
	Scrop Gardan Road												
	0.00	4.50		1	4.50	4.40	4.40	4.40	0.15	2.97			
	4.50	10.80		1	6.30	4.40	4.80	4.60	0.15	4.35			
	10.80	23.20		1	12.40	4.80	4.10	4.45	0.15	8.28			
	23.20	28.20		1	5.00	4.10	4.30	4.20	0.15	3.15			
	28.20	43.70		1	15.50	4.30	4.00	4.15	0.15	9.65			
	43.70	52.35		1	8.65	4.00	4.50	4.25	0.15	5.51			
	52.35	67.35		1	15.00	4.50	3.80	4.15	0.15	9.34			
	67.35	74.35		1	7.00	3.80	4.80	4.30	0.15	4.52			
	74.35	84.35		1	10.00	4.80	5.60	5.20	0.15	7.80			
	84.35	99.35		1	15.00	5.60	4.80	5.20	0.15	11.70			
	99.35	108.15		1	8.80	4.80	3.60	4.20	0.15	5.54			
	108.15	115.75		1	7.60	3.60	4.70	4.15	0.15	4.73			
	115.75	127.55		1	11.80	4.70	4.00	4.35	0.15	7.70			
	127.55	138.55		1	11.00	4.00	3.90	3.95	0.15	6.52			
	Manasa Public School Road												
	0.00	15.00		1	15.00	3.70	3.50	3.60	0.15	8.10			
	15.00	30.00		1	15.00	3.50	3.70	3.60	0.15	8.10			
	30.00	40.00		1	10.00	3.70	3.40	3.55	0.15	5.33			
	40.00	53.50		1	13.50	3.40	3.00	3.20	0.15	6.48			
	53.50	68.50		1	15.00	3.00	4.00	3.50	0.15	7.88			
	68.50	73.00		1	4.50	4.00	4.00	4.00	0.15	2.70			
								Total Quantity		**184.15**	**Cum**	**6156.00**	**11,33,623.55**
25	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.(P.No.177, I.No.22.7 of PW, P&IWTD SR 2016-17)												
	Concrete Road												
	Venkatesh House Road												
	0.00	15.00		1	15.00	3.60	4.80	4.20		63.00			
	15.00	26.40		1	11.40	4.80	3.60	4.20		47.88			
	26.40	41.40		1	15.00	3.60	4.70	4.15		62.25			
	41.40	56.40		1	15.00	4.70	4.50	4.60		69.00			
	56.40	71.40		1	15.00	4.50	4.75	4.63		69.38			
	71.40	81.00		1	9.60	4.75	5.10	4.93		47.28			
	Scrop Gardan Road												
	0.00	4.50		1	4.50	4.40	4.40	4.40		19.80			
	4.50	10.80		1	6.30	4.40	4.80	4.60		28.98			
	10.80	23.20		1	12.40	4.80	4.10	4.45		55.18			
	23.20	28.20		1	5.00	4.10	4.30	4.20		21.00			
	28.20	43.70		1	15.50	4.30	4.00	4.15		61.73			
	43.70	52.35		1	8.65	4.00	4.50	4.25		36.76			
	52.35	67.35		1	15.00	4.50	3.80	4.15		62.25			
	67.35	74.35		1	7.00	3.80	4.80	4.30		30.10			
	74.35	84.35		1	10.00	4.80	5.60	5.20		52.00			
	84.35	99.35		1	15.00	5.60	4.80	5.20		78.00			
	99.35	108.15		1	8.80	4.80	3.60	4.20		36.96			
	108.15	115.75		1	7.60	3.60	4.70	4.15		31.54			
	115.75	127.55		1	11.80	4.70	4.00	4.35		51.33			
	127.55	138.55		1	11.00	4.00	3.90	3.95		43.45			

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Er

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Name of Work :-Project: 11.Improvement to Drains and Asphalting to Road at SVN School Road Krishnappa House to Venkatesh House Road in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks	Rate	Amount
	Manasa Public School Road												
	0.00	15.00		1	15.00	3.70	3.50	3.60		54.00			
	15.00	30.00		1	15.00	3.50	3.70	3.60		54.00			
	30.00	40.00		1	10.00	3.70	3.40	3.55		35.50			
	40.00	53.50		1	13.50	3.40	3.00	3.20		43.20			
	53.50	68.50		1	15.00	3.00	4.00	3.50		52.50			
	68.50	73.00		1	4.50	4.00	4.00	4.00		18.00			
									Total Quantity	1227.66	Sq-m	102.60	1,25,958.17
26	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14 of PW,P&IWTD S.R 2016-17)												
	Qty Vide Pre-Measurement of Page No 7 to 9									708.02			
	Qty to be Paid									708.02	Cum	185.40	1,31,267.37
28	KSRRB M 400-17. Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406 (P.No.158, I.No.20.18 of PW,P&IWTD SR 2016-17)												
	Qty Vide Pre-Measurement of Page No 10 to 11									281.50			492766.00
	Qty to be Paid									281.50	Cum	1750.50	4,92,760.50
29	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.161, I.No.21.6 of PW,P&IWTD SR 2016-17)												
	Qty Vide Pre-Measurement of Page No 12 to 13									1223.90			
	Qty to be Paid									1223.90	Sqm	29.70	36,349.83
30	KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5 (P.No.161, I.No.21.2 of PW,P&IWTD SR 2016-17)												
	Qty Vide Pre-Measurement of Page No 14 to 15									2314.89			
	Qty to be Paid									2314.89	Sqm	3.60	8,333.60

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

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Name of Work :-Project: 11.Improvement to Drains and Asphalting to Road at SVN School Road Krishnappa House to Venkatesh House Road in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks	Rate	Amount
31	KSRRB M500 / 3 Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.161 I.No.21.7 of PW,P&IWTD SR of 2016-17)											
	Qty Vide Pre-Measurement of Page No 17								3460.99			
	Qty to be Paid								3460.99	Sqm	13.50	46,723.36
	Measurement Recorded on											
32	KSRRB M500-19, Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.165 of I.No.21.22.6 in PW,P&IWTD S.R 2016-17)											
	1st Main (SVN school road)											
	0.00	3.00		1	3.00	7.50	5.80	6.65	0.04	0.80		
	3.00	30.00		1	27.00	5.80	6.10	5.95	0.04	6.43		
	30.00	53.00		1	23.00	6.10	6.00	6.05	0.04	5.57		
	53.00	68.00		1	15.00	6.40	6.20	6.30	0.04	3.78		
	68.00	83.00		1	15.00	6.20	6.20	6.20	0.04	3.72		
	83.00	98.00		1	15.00	6.20	6.00	6.10	0.04	3.66		
	98.00	113.00		1	15.00	6.00	6.40	6.20	0.04	3.72		
	113.00	128.00		1	15.00	6.40	7.00	6.70	0.04	4.02		
	128.00	143.00		1	15.00	7.00	7.00	7.00	0.04	4.20		
	143.00	158.00		1	15.00	7.00	6.20	6.60	0.04	3.96		
	158.00	173.00		1	15.00	6.20	7.20	6.70	0.04	4.02		
	173.00	188.00		1	15.00	7.20	7.20	7.20	0.04	4.32		
	188.00	203.00		1	15.00	7.20	6.70	6.95	0.04	4.17		
	203.00	218.00		1	15.00	6.70	7.00	6.85	0.04	4.11		
	218.00	233.00		1	15.00	7.00	4.70	5.85	0.04	3.51		
	233.00	248.00		1	15.00	4.70	6.50	5.60	0.04	3.36		
	248.00	263.00		1	15.00	6.50	5.20	5.85	0.04	3.51		
	263.00	278.00		1	15.00	5.20	6.60	5.90	0.04	3.54		
	278.00	291.00		1	13.00	6.60	6.40	6.50	0.04	3.38		
	5th 'B' Main Rd Sanchara Nagara											
	0.00	3.50		1	3.50	7.20	6.50	6.85	0.04	0.96		
	3.50	18.50		1	15.00	6.50	6.00	6.25	0.04	3.75		
	18.50	33.50		1	15.00	6.00	6.30	6.15	0.04	3.69		
	33.50	48.50		1	15.00	6.30	6.30	6.30	0.04	3.78		
	48.50	60.00		1	11.50	6.30	5.60	5.95	0.04	2.74		
	60.00	75.00		1	15.00	5.60	5.80	5.70	0.04	3.42		
	75.00	90.00		1	15.00	5.80	5.80	5.80	0.04	3.48		
	90.00	105.00		1	15.00	5.80	6.00	5.90	0.04	3.54		
	105.00	115.00		1	10.00	6.00	5.10	5.55	0.04	2.22		
	115.00	130.50		1	15.50	5.10	5.20	5.15	0.04	3.19		

73.77

Tejus Consultants

Contractor

Assistant Engineer 18-8-2021

Assistant Executive Engineer

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Detailed Measurements

Name of Work :-Project: 11.Improvement to Drains and Asphalting to Road at SVN School Road Krishnappa House to Venkatesh House Road in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remar		
	7th 'B' Main Rd Sanchara Nagara												
	0.00	5.00		1	5.00	7.40	6.70	7.05	0.04	1.41			
	5.00	18.00		1	13.00	6.70	5.90	6.30	0.04	3.28			
	18.00	32.00		1	14.00	5.90	5.30	5.60	0.04	3.14			
	32.00	52.00		1	20.00	5.30	6.90	6.10	0.04	4.88			
	52.00	67.00		1	15.00	6.90	6.60	6.75	0.04	4.05			
	67.00	82.00		1	15.00	6.60	6.50	6.55	0.04	3.93			
	82.00	97.00		1	15.00	6.50	7.00	6.75	0.04	4.05			
	97.00	112.00		1	15.00	7.00	6.90	6.95	0.04	4.17			
	112.00	129.60		1	17.60	6.90	7.30	7.10	0.04	5.00			
									Total Quantity	138.44	Cum	9023.40	12,49,194.08
33	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803.(P.No.185, I.No.24.15 of PW,P&IWTD SR 2016-17)												
	1st Main (SVN school road)												
	Edge Line			2	291.00			0.10		58.20			
	5th 'B' Main Rd Sanchara Nagara												
	Edge Line			2	130.50			0.10		26.10			
	7th 'B' Main Rd Sanchara Nagara												
	Edge Line			2	129.60			0.10		25.92			
									Total Quantity	110.22	Sqm	581.40	64,081.91
												Grand Total	43,28,330.19

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

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BRUHAT BANGALORE MAHANAGARA PALIKE
BYTARAYANPURA DIVISION

Name of Work: (As per sanctioned estimate): Package No.01
(Package consists of 18 works)

4. Improvement to Roads and Drains at Hunnasemarada Krishnappa Layout in Ward No.06(Thanisandra), Byatarayanapura Sub Division.

DETAILED-MEASUREMENT

FOURTH AND FINAL BILL

TEJUS CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No.58 MIG, 6th Cross, 3rd Main
1st Stage, Basaveshwaranagar
Bangalore-560079
☎ 080 - 23287532
email: tejusconsultants@gmail.com

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Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Sub Division

Bill No : 4th & Final Bill

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Name of Work :- Improvement to Roads and Drains at Hunnasemarada Krishnappa Layout in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks / Unit	Rate	Amount
3	KSRRB M300-1, Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)											
	Qty Vide Pre-Measurement of Page No 1 to 2								163.95			
	Qty to be Paid								**163.95**	**cum**	**228.60**	**37,478.97**
26	KSRRB M300-11, Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14 of PW,P&IWTD S.R 2016-17)											
	Qty Vide Pre-Measurement of Page No 3 to 4								1065.59			
	Qty to be Paid								**1065.59**	**Cum**	**185.40**	**1,97,560.00**
28	KSRRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406 (P.No.158, I.No.20.18 of PW.P&IWTD SR 2016-17)											
	Qty Vide Pre-Measurement of Page No								816.95			14,30,071.00
	Qty to be Paid 5 to 6								**816.95**	**Cum**	**1750.50**	**14,30,072.38**
29	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.161, I.No.21.6 of PW,P&IWTD SR 2016-17)											
	Qty Vide Pre-Measurement of Page No								3551.96			
	Qty to be Paid 7 to 8								**3551.96**	**Sqm**	**29.70**	**1,05,493.21**
31	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.161 I.No.21.7 of PW,P&IWTD SR of 2016-17)											
	Qty Vide Pre-Measurement of Page No 9 to 10								3551.96			
	Qty to be Paid								**3551.96**	**Sqm**	**13.50**	**47,951.46**

Tejus Consultants

Contractor

Assistant Engineer 14.07.2024

Assistant Executive Engineer

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Name of Work :- Improvement to Roads and Drains at Hunnasemarada Krishnappa Layout in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks / Unit	Rate	Amount
32	KSRRB M500-19. Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.165 of I.No.21.22.6 in PW,P&IWTD S.R 2016-17)											
	Hunse Marad Krishnappa layout											
	5th c/s road (Krishnappa road)											
	0.00	11.00		1	11.00	4.40	5.00	4.70	0.04	2.07		
	11.00	15.00		1	4.00	5.00	5.00	5.00	0.04	0.80		
	15.00	30.00		1	15.00	5.00	4.80	4.90	0.04	2.94		
	30.00	45.00		1	15.00	4.80	5.00	4.90	0.04	2.94		
	45.00	52.00		1	7.00	5.00	5.00	5.00	0.04	1.40		
	52.00	55.00		1	3.00	5.00	6.40	5.70	0.04	0.68		
	55.00	60.00		1	5.00	6.40	4.80	5.60	0.04	1.12		
	60.00	75.00		1	15.00	4.80	5.00	4.90	0.04	2.94		
	75.00	90.00		1	15.00	5.00	4.80	4.90	0.04	2.94		
	90.00	105.00		1	15.00	4.80	4.70	4.75	0.04	2.85		
	105.00	120.00		1	15.00	4.70	4.80	4.75	0.04	2.85		
	120.00	135.00		1	15.00	4.80	4.50	4.65	0.04	2.79		
	135.00	150.00		1	15.00	4.50	4.90	4.70	0.04	2.82		
	150.00	165.00		1	15.00	4.90	4.80	4.85	0.04	2.91		
	165.00	178.00		1	13.00	4.80	4.00	4.40	0.04	2.29		
	178.00	195.00		1	17.00	4.00	4.00	4.00	0.04	2.72		
	195.00	210.00		1	15.00	4.00	4.10	4.05	0.04	2.43		
	210.00	228.00		1	18.00	4.10	4.00	4.05	0.04	2.92		
	6th c/s road (Krishnappa road)											
	0.00	15.00		1	15.00	5.10	4.60	4.85	0.04	2.91		
	15.00	30.00		1	15.00	4.60	4.80	4.70	0.04	2.82		
	30.00	45.00		1	15.00	4.80	4.80	4.80	0.04	2.88		
	45.00	56.00		1	11.00	4.80	5.30	5.05	0.04	2.22		
	56.00	75.00		1	19.00	5.30	5.30	5.30	0.04	4.03		
	75.00	90.00		1	15.00	5.30	4.80	5.05	0.04	3.03		
	90.00	105.00		1	15.00	4.80	4.70	4.75	0.04	2.85		
	105.00	120.00		1	15.00	4.70	4.60	4.65	0.04	2.79		
	120.00	135.00		1	15.00	4.60	4.50	4.55	0.04	2.73		
	135.00	150.00		1	15.00	4.50	4.90	4.70	0.04	2.82		
	150.00	165.00		1	15.00	4.90	5.40	5.15	0.04	3.09		
	165.00	180.00		1	15.00	5.40	4.20	4.80	0.04	2.88		
	180.00	195.00		1	15.00	4.20	4.50	4.35	0.04	2.61		
	195.00	210.00		1	15.00	4.50	4.60	4.55	0.04	2.73		
	210.00	225.00		1	15.00	4.60	4.50	4.55	0.04	2.73		
	225.00	236.00		1	11.00	4.50	6.00	5.25	0.04	2.31		
	236.00	242.00		1	6.00	6.00	4.20	5.10	0.04	1.22		
	242.00	255.00		1	13.00	4.20	4.30	4.25	0.04	2.21		
	255.00	270.00		1	15.00	4.30	4.40	4.35	0.04	2.61		
	270.00	285.00		1	15.00	4.40	4.00	4.20	0.04	2.52		
	285.00	300.00		1	15.00	4.00	4.00	4.00	0.04	2.40		
	300.00	325.00		1	25.00	4.00	5.40	4.70	0.04	4.70		61.09

CMEC 4241 2205KD

Tejus Consultants Contractor Assistant Engineer Assistant Executive Engineer

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Name of Work :- Improvement to Roads and Drains at Hunnasemarada Krishnappa Layout in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks / Unit	Rate	Amount
	7th c/s road (Krishnappa road)												
	0.00	6.90		1	6.90	3.50	4.50	4.00	0.04	1.10			
	6.90	30.00		1	23.10	4.50	4.70	4.60	0.04	4.25			
	30.00	45.00		1	15.00	4.70	3.80	4.25	0.04	2.55			
	45.00	60.00		1	15.00	3.80	3.90	3.85	0.04	2.31			
	60.00	75.00		1	15.00	3.90	4.30	4.10	0.04	2.46			
	75.00	90.00		1	15.00	4.30	4.40	4.35	0.04	2.61			
	90.00	105.00		1	15.00	4.40	4.60	4.50	0.04	2.70			
	105.00	120.00		1	15.00	4.60	4.40	4.50	0.04	2.70			
	120.00	135.00		1	15.00	4.40	4.20	4.30	0.04	2.58			
	135.00	150.00		1	15.00	4.20	4.30	4.25	0.04	2.55			
	150.00	165.00		1	15.00	4.30	4.40	4.35	0.04	2.61			
	165.00	180.00		1	15.00	4.40	4.50	4.45	0.04	2.67			
	180.00	195.00		1	15.00	4.50	4.60	4.55	0.04	2.73			
	195.00	210.00		1	15.00	4.60	4.50	4.55	0.04	2.73			
	210.00	221.00		1	11.00	4.50	4.70	4.60	0.04	2.02		38.58	12,82,045.00
								Total Quantity		**142.08**	**Cum**	**9023.40**	**12,82,030.23**
33	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803.(P.No.185, I.No.24.15 of PW,P&IWTD SR 2016-												
	Hunse Marad Krishnappa layout												
	5th c/s road (Krishnappa road)												
	Edge Line			2	228.00			0.10		45.60			
	6th c/s road (Krishnappa road)												
	Edge Line			2	325.00			0.10		65.00			
	7th c/s road (Krishnappa road)												
	Edge Line			2	221.00			0.10		44.20			
								Total Quantity		**154.80**	**Sqm**	**581.40**	**90,000.72**
												Grand Total	**31,90,586.99**

31,90,600.36

Tejus Consultants

Contractor

Assistant Engineer 14.07.2024

Assistant Executive Engineer

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BRUHAT BANGALORE MAHANAGARA PALIKE
BYTARAYANPURA DIVISION

Name of Work: (As per sanctioned estimate): Package No.01
(Package consists of 18 works)

5. Improvement of Drains and Asphalting to Road at Rachenahali Circle to Burial Ground in Ward No.06(Thanisandra), Byatarayanapura Sub Division.

DETAILED-MEASUREMENT

FOURTH AND FINAL BILL

TEJUS CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No.58 MIG, 6th Cross, 3rd Main
1st Stage, Basaveshwaranagar
Bangalore-560079
☎ 080 - 23287532
email: tejusconsultants@gmail.com

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Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Sub Division

Bill No :4th & Final Bill

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Name of Work : - Improvement of Drains and Asphalting to Road at Rachenahali Circle to Burial Ground in Ward No.06(Thanisandra), Byatarayanapura Sub Division

SOR/BOQ Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Unit	Rate	Amount
3	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)											
	Qty Vide Pre-Measurement of Page No 1								42.00			
	Qty to be Paid								**42.00**	**cum**	**228.60**	**9,601.20**
11	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 7.5cms thick (P.No.25, I.No.5.31.1 of PW, P&IWTD SR 2016-17)											
	Qty Vide Pre-Measurement of Page No 2								180.00			
	Qty to be Paid								**180.00**	**Sqm**	**712.80**	**1,28,304.00**
26	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14 of PW,P&IWTD S.R 2016-17)											
	Qty Vide Pre-Measurement of Page No 3 to 4								1,928.38			.63
	Qty to be Paid								**1928.38**	**Cum**	**185.40**	**3,57,521.47**
28	KSRRB M 400-17. Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406 (P.No.158, I.No.20.18 of PW,P&IWTD SR 2016-17)											
	Qty Vide Pre-Measurement of Page No 5 to 6								1478.42			25,87,974
	Qty to be Paid								**1478.42**	**Cum**	**1750.50**	**25,87,981.04**
29	KSRRB M 500-6. Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.161, I.No.21.6 of PW.P&IWTD SR 2016-17)											
	Qty Vide Pre-Measurement of Page No 7 to 8								6427.93			
	Qty to be Paid								**6427.93**	**Sqm**	29.70	1,90,909.52
31	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm. heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.161 I.No.21.7 of PW.P&IWTD SR of 2016-17)											
	Qty Vide Pre-Measurement of Page No 9 to 12								11644.15			
	Qty to be Paid								**11644.15**	**Sqm**	**13.50**	**1,57,196.03**

Tejus Consultants Contractor Assistant Engineer Assistant Executive Engin

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Name of Work : - Improvement of Drains and Asphalting to Road at Rachenahali Circle to Burial Ground in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Unit	Rate	Amount
E1	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40 60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No.163 of I.No.21.27.6 in PW.P&IWTD S.R 2016-17)											
	Qty Vide Pre-Measurement of Page No 12 to 14								260.81			
	Qty Limited to								258.99			
	Qty to be Paid								258.99	Cum	8532.63	22,09,865.84
	Measurement Recorded on											
53 32	KSRRB M500-19. Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.165 of I.No.21.22.6 in PW.P&IWTD S.R 2016-17)											
	Parasu Manyatha Apartment to St.Ann's Church											
	0.00	10.00		1	10.00	11.30	11.70	11.50	0.04	4.60		
	10.00	20.00		1	10.00	11.70	10.80	11.25	0.04	4.50		
	20.00	24.00		1	4.00	10.80	9.60	10.20	0.04	1.63		
	24.00	30.00		1	6.00	9.60	9.70	9.65	0.04	2.32		
	30.00	45.00		1	15.00	9.70	10.70	10.20	0.04	6.12		
	45.00	60.00		1	15.00	10.70	10.00	10.35	0.04	6.21		
	60.00	75.00		1	15.00	10.00	10.30	10.15	0.04	6.09		
	75.00	90.00		1	15.00	10.30	9.40	9.85	0.04	5.91		
	90.00	105.00		1	15.00	9.40	9.80	9.60	0.04	5.76		
	105.00	120.00		1	15.00	9.80	9.60	9.70	0.04	5.82		
	120.00	135.00		1	15.00	9.60	8.80	9.20	0.04	5.52		
	135.00	150.00		1	15.00	8.80	9.10	8.95	0.04	5.37		
	150.00	165.00		1	15.00	9.10	8.80	8.95	0.04	5.37		
	165.00	170.00		1	5.00	8.80	11.30	10.05	0.04	2.01		
	170.00	177.00		1	7.00	11.30	11.00	11.15	0.04	3.12		
	177.00	185.00		1	8.00	11.00	9.00	10.00	0.04	3.20		
	185.00	200.00		1	15.00	9.00	9.00	9.00	0.04	5.40		
	200.00	215.00		1	15.00	13.30	10.00	11.65	0.04	6.99		
	215.00	230.00		1	15.00	10.00	9.40	9.70	0.04	5.82		
	230.00	245.00		1	15.00	9.40	9.40	9.40	0.04	5.64		
	245.00	260.00		1	15.00	9.40	9.60	9.50	0.04	5.70		
	260.00	275.00		1	15.00	9.60	9.90	9.75	0.04	5.85		
	275.00	290.00		1	15.00	9.90	9.00	9.45	0.04	5.67		
	290.00	305.00		1	15.00	9.00	8.80	8.90	0.04	5.34		
	305.00	316.00		1	11.00	8.80	8.80	8.80	0.04	3.87		
	316.00	320.00		1	4.00	8.80	10.80	9.80	0.04	1.57		
	320.00	331.00		1	11.00	10.80	10.00	10.40	0.04	4.58		
	331.00	345.00		1	14.00	9.70	10.80	10.25	0.04	5.74		
	345.00	355.00		1	10.00	10.80	10.00	10.40	0.04	4.16		
	355.00	361.00		1	6.00	10.00	11.50	10.75	0.04	2.58		

14+2+16

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

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me of Work : - Improvement of Drains and Asphalting to Road at Rachenahali Circle to Burial Ground in Ward 06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Unit	Ra	
	361.00	370.00		1	9.00	11.50	11.00	11.25	0.04	4.05			
	370.00	385.00		1	15.00	11.00	8.50	9.75	0.04	5.85			
	385.00	400.00		1	15.00	8.50	8.50	8.50	0.04	5.10			
	400.00	417.00		1	17.00	8.50	9.60	9.05	0.04	6.15			
	Approaches												
	Ch 400			1	3.30	4.50	4.50	4.50	0.04	0.59			
	Ch 404			1	3.20	5.50	5.50	5.50	0.04	0.70			
	Ch 410			1	2.30	5.40	5.40	5.40	0.04	0.50			
	Ch 200-215			1	5.20	5.40	5.40	5.40	0.04	1.12			
	Burial ground to Parasu Manyatha Apartment												
	0.00	10.00		1	10.00	8.10	5.00	6.55	0.04	2.62			
	10.00	15.00		1	5.00	5.00	5.80	5.40	0.04	1.08			
	15.00	30.00		1	15.00	5.80	6.70	6.25	0.04	3.75			
	30.00	45.00		1	15.00	6.70	7.20	6.95	0.04	4.17			
	45.00	60.00		1	15.00	7.20	7.30	7.25	0.04	4.35			
	60.00	75.00		1	15.00	7.30	7.50	7.40	0.04	4.44			
	75.00	90.00		1	15.00	7.50	7.70	7.60	0.04	4.56			
	90.00	105.00		1	15.00	7.70	7.90	7.80	0.04	4.68			
	105.00	120.00		1	15.00	7.90	7.50	7.70	0.04	4.62			
	120.00	135.00		1	15.00	7.90	7.50	7.70	0.04	4.62			
	135.00	150.00		1	15.00	7.50	7.60	7.55	0.04	4.53			
	150.00	164.00		1	14.00	7.60	10.40	9.00	0.04	5.04			
	164.00	174.00		0	0.00	0.00	0.00	0.00	0.04	0.00			
	174.00	190.00		1	16.00	9.10	8.20	8.65	0.04	5.54			
	190.00	205.00		1	15.00	8.20	8.20	8.20	0.04	4.92			
	205.00	220.00		1	15.00	8.20	8.30	8.25	0.04	4.95			
	220.00	235.00		1	15.00	8.30	8.40	8.35	0.04	5.01			
	235.00	250.00		1	15.00	8.40	8.70	8.55	0.04	5.13			
	250.00	265.00		1	15.00	8.70	9.50	9.10	0.04	5.46			
	265.00	275.00		1	10.00	9.50	11.30	10.40	0.04	4.16			
	275.00	280.00		1	5.00	11.30	12.80	12.05	0.04	2.41			
	280.00	282.00		1	2.00	12.80	14.60	13.70	0.04	1.10			
	282.00	285.00		1	3.00	14.60	18.60	16.60	0.04	1.99			
	Approaches												
	205.00	220.00		1	4.20	12.30	8.20	10.25	0.04	1.72			
	Deduct Flag Pole												
	Ch:285(3.14*1.43*			-1		6.42			0.04	-0.26			
								Total Quantity		257.12	Cum	9023.40	23,20,071.34
33	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803.(P.No.185, I.No.24.15 of PW,P&IWTD SR 2016-17)												
	Parasu Manyatha Apartment to St.Ann's Church												
	Edge Line			2	417.00			0.10		83.40			
	Burial ground to Parasu Manyatha Apartment												
	Edge Line			2	275.00			0.10		55.00			
								Total Quantity		138.40	Sqm	581.40	80,465.76
												Grand Total	80,41,916.20

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

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BRUHAT BANGALORE MAHANAGARA PALIKE
BYTARAYANPURA DIVISION

Name of Work: (As per sanctioned estimate): Package No.01
(Package consists of 18 works)

6. Improvement of Drains and Asphalting to Road at Bhuvaneshwarinagara Cross Roads in Ward No.06(Thanisandra), Byatarayanapura Sub Division

DETAILED-MEASUREMENT

FOURTH AND FINAL BILL

TEJUS CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No.58 MIG, 6th Cross, 3rd Main
1st Stage, Basaveshwaranagar
Bangalore-560079
☎ 080 - 23287532
email: tejusconsultants@gmail.com

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Detail- Measurements

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Sub Division

Bill No :4th & Final Bill

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Name of Work :- Improvement of Drains and Asphalting to Road at Bhuvaneshwarinagara Cross Roads in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Unit	Rate	Amount
26	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301											
	Qty Vide Pre-Measurement of Page No 1								289.84			53736.0
	Qty to be Paid								**289.84**	**Cum**	**185.40**	**53,735.87**
28	KSRRB M 400-17. Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406 (P.No.158, I.No.20.18 of PW,P&IWTD SR 2016-17)											
	Qty Vide Pre-Measurement of Page No 2								222.21			388744.00
	Qty to be Paid								**222.21**	**Cum**	**1750.50**	**3,88,976.42**
29	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.161, I.No.21.6 of PW,P&IWTD SR 2016-17)											
	Qty Vide Pre-Measurement of Page No 3								966.13			28674.00
	Qty to be Paid								**966.13**	**Sqm**	**29.70**	**28,693.91**
30	KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5 (P.No.161, I.No.21.2 of PW,P&IWTD SR 2016-17)								428.52			
	Qty Vide Pre-Measurement of Page No 4								428.53			.67
	Qty to be Paid								**428.53** .52	**Sqm**	**3.60**	**1,542.69**
31	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.161 I.No.21.7 of PW,P&IWTD SR of 2016-17)											
	Qty Vide Pre-Measurement of Page No 5								1394.65			
	Qty to be Paid								**1394.65**	**Sqm**	**13.50**	**18,827.78**

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

Scanned by CamScanner

Detail- Measurements

Name of Work :- Improvement of Drains and Asphalting to Road at Bhuvaneshwarinagara Cross Roads in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Unit	Rate	Amount
	Measurement Recorded on											
32	KSRRB M500-19. Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.165 of I.No.21.22.6 in PW.P&IWTD S.R 2016-17)											
	Bhuvaneshwari Nagar											
	17th Cross Road											
	0.00	15.00		1	15.00	6.20	6.40	6.30	0.04	3.78		
	15.00	30.00		1	15.00	6.40	7.00	6.70	0.04	4.02		
	30.00	45.00		1	15.00	7.00	6.00	6.50	0.04	3.90		
	45.00	60.00		1	15.00	6.00	5.80	5.90	0.04	3.54		
	60.00	75.00		1	15.00	5.80	5.70	5.75	0.04	3.45		
	75.00	90.00		1	15.00	5.70	6.00	5.85	0.04	3.51		
	90.00	105.00		1	15.00	6.00	5.40	5.70	0.04	3.42		
	105.00	120.00		1	15.00	5.40	4.70	5.05	0.04	3.03		
	120.00	133.50		1	13.50	4.70	4.90	4.80	0.04	2.59		
	133.50	148.50		1	15.00	4.90	5.20	5.05	0.04	3.03		
	148.50	163.50		1	15.00	5.20	4.30	4.75	0.04	2.85		
	163.50	181.00		1	17.50	4.30	5.40	4.85	0.04	3.40		
	181.00	201.00		1	20.00	5.40	4.30	4.85	0.04	3.88		
	201.00	214.00		1	13.00	4.30	4.50	4.40	0.04	2.29		
	214.00	230.00		1	16.00	4.50	4.60	4.55	0.04	2.91		
	230.00	245.00		1	15.00	4.60	5.30	4.95	0.04	2.97		
	245.00	252.00		1	7.00	5.30	4.80	5.05	0.04	1.41		
	252.00	261.50		1	9.50	4.80	4.70	4.75	0.04	1.81		
								Total Quantity		**55.79**	**Cum**	**9023.40**	**5,03,379.39**
33	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803.(P.No.185, I.No.24.15 of PW.P&IWTD SR 2016-											
	Bhuvaneshwari Nagar											
	17th Cross Road											
	Edge Line			2	261.50			0.10		52.30			
								Total Quantity		**52.30**	**Sqm**	**581.40**	**30,407.22**
												Grand Total	**10,25,563.28**

10,23,601.62

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

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